

621 Human Secreted Proteins

5 *Related Applications*

This application is a continuation-in-part of PCT/US02/08123, filed March 19, 2002, which in turn claims benefit of the following:

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
PCT/US02/08123	Continuation-in-part of	10/100,683	03/19/02
10/100,683	Non-provisional of	60/277,340	03/21/01
10/100,683	Non-provisional of	60/306,171	07/19/01
10/100,683	Non-provisional of	60/331,287	11/13/01
10/100,683	Continuation-in-part of	09/981,876	10/19/01
09/981,876	Divisional of	09/621,011	07/20/00
09/621,011	Continuation of	09/148,545	09/04/98
09/148,545	Continuation-in-part of	PCT/US98/04482	03/06/98
10/100,683	Continuation-in-part of	09/621,011	07/20/00
09/621,011	Continuation of	09/148,545	09/04/98
09/148,545	Continuation-in-part of	PCT/US98/04482	03/06/98
10/100,683	Continuation-in-part of	09/148,545	09/04/98
09/148,545	Continuation-in-part of	PCT/US98/04482	03/06/98
10/100,683	Continuation-in-part of	PCT/US98/04482	03/06/98
10/100,683	Continuation-in-part of	PCT/US98/04482	03/06/98
PCT/US98/04482	Non-provisional of	60/040,162	03/07/97
PCT/US98/04482	Non-provisional of	60/040,333	03/07/97
PCT/US98/04482	Non-provisional of	60/038,621	03/07/97
PCT/US98/04482	Non-provisional of	60/040,161	03/07/97
PCT/US98/04482	Non-provisional of	60/040,626	03/07/97
PCT/US98/04482	Non-provisional of	60/040,334	03/07/97
PCT/US98/04482	Non-provisional of	60/040,336	03/07/97
PCT/US98/04482	Non-provisional of	60/040,163	03/07/97
PCT/US98/04482	Non-provisional of	60/047,615	05/23/97
PCT/US98/04482	Non-provisional of	60/047,600	05/23/97
PCT/US98/04482	Non-provisional of	60/047,597	05/23/97
PCT/US98/04482	Non-provisional of	60/047,502	05/23/97
PCT/US98/04482	Non-provisional of	60/047,633	05/23/97
PCT/US98/04482	Non-provisional of	60/047,583	05/23/97
PCT/US98/04482	Non-provisional of	60/047,617	05/23/97
PCT/US98/04482	Non-provisional of	60/047,618	05/23/97
PCT/US98/04482	Non-provisional of	60/047,503	05/23/97
PCT/US98/04482	Non-provisional of	60/047,592	05/23/97
PCT/US98/04482	Non-provisional of	60/047,581	05/23/97
PCT/US98/04482	Non-provisional of	60/047,584	05/23/97
PCT/US98/04482	Non-provisional of	60/047,500	05/23/97
PCT/US98/04482	Non-provisional of	60/047,587	05/23/97
PCT/US98/04482	Non-provisional of	60/047,492	05/23/97

PCT/US98/04482	Non-provisional of	60/047,598	05/23/97
PCT/US98/04482	Non-provisional of	60/047,613	05/23/97
PCT/US98/04482	Non-provisional of	60/047,582	05/23/97
PCT/US98/04482	Non-provisional of	60/047,596	05/23/97
PCT/US98/04482	Non-provisional of	60/047,612	05/23/97
PCT/US98/04482	Non-provisional of	60/047,632	05/23/97
PCT/US98/04482	Non-provisional of	60/047,601	05/23/97
PCT/US98/04482	Non-provisional of	60/043,580	04/11/97
PCT/US98/04482	Non-provisional of	60/043,568	04/11/97
PCT/US98/04482	Non-provisional of	60/043,314	04/11/97
PCT/US98/04482	Non-provisional of	60/043,569	04/11/97
PCT/US98/04482	Non-provisional of	60/043,311	04/11/97
PCT/US98/04482	Non-provisional of	60/043,671	04/11/97
PCT/US98/04482	Non-provisional of	60/043,674	04/11/97
PCT/US98/04482	Non-provisional of	60/043,669	04/11/97
PCT/US98/04482	Non-provisional of	60/043,312	04/11/97
PCT/US98/04482	Non-provisional of	60/043,313	04/11/97
PCT/US98/04482	Non-provisional of	60/043,672	04/11/97
PCT/US98/04482	Non-provisional of	60/043,315	04/11/97
PCT/US98/04482	Non-provisional of	60/048,974	06/06/97
PCT/US98/04482	Non-provisional of	60/056,886	08/22/97
PCT/US98/04482	Non-provisional of	60/056,877	08/22/97
PCT/US98/04482	Non-provisional of	60/056,889	08/22/97
PCT/US98/04482	Non-provisional of	60/056,893	08/22/97
PCT/US98/04482	Non-provisional of	60/056,630	08/22/97
PCT/US98/04482	Non-provisional of	60/056,878	08/22/97
PCT/US98/04482	Non-provisional of	60/056,662	08/22/97
PCT/US98/04482	Non-provisional of	60/056,872	08/22/97
PCT/US98/04482	Non-provisional of	60/056,882	08/22/97
PCT/US98/04482	Non-provisional of	60/056,637	08/22/97
PCT/US98/04482	Non-provisional of	60/056,903	08/22/97
PCT/US98/04482	Non-provisional of	60/056,888	08/22/97
PCT/US98/04482	Non-provisional of	60/056,879	08/22/97
PCT/US98/04482	Non-provisional of	60/056,880	08/22/97
PCT/US98/04482	Non-provisional of	60/056,894	08/22/97
PCT/US98/04482	Non-provisional of	60/056,911	08/22/97
PCT/US98/04482	Non-provisional of	60/056,636	08/22/97
PCT/US98/04482	Non-provisional of	60/056,874	08/22/97
PCT/US98/04482	Non-provisional of	60/056,910	08/22/97
PCT/US98/04482	Non-provisional of	60/056,864	08/22/97
PCT/US98/04482	Non-provisional of	60/056,631	08/22/97
PCT/US98/04482	Non-provisional of	60/056,845	08/22/97
PCT/US98/04482	Non-provisional of	60/056,892	08/22/97
PCT/US98/04482	Non-provisional of	60/047,595	05/23/97
PCT/US98/04482	Non-provisional of	60/057,761	09/05/97
PCT/US98/04482	Non-provisional of	60/047,599	05/23/97
PCT/US98/04482	Non-provisional of	60/047,588	05/23/97
PCT/US98/04482	Non-provisional of	60/047,585	05/23/97

PCT/US98/04482	Non-provisional of	60/047,586	05/23/97
PCT/US98/04482	Non-provisional of	60/047,590	05/23/97
PCT/US98/04482	Non-provisional of	60/047,594	05/23/97
PCT/US98/04482	Non-provisional of	60/047,589	05/23/97
PCT/US98/04482	Non-provisional of	60/047,593	05/23/97
PCT/US98/04482	Non-provisional of	60/047,614	05/23/97
PCT/US98/04482	Non-provisional of	60/043,578	04/11/97
PCT/US98/04482	Non-provisional of	60/043,576	04/11/97
PCT/US98/04482	Non-provisional of	60/047,501	05/23/97
PCT/US98/04482	Non-provisional of	60/043,670	04/11/97
PCT/US98/04482	Non-provisional of	60/056,632	08/22/97
PCT/US98/04482	Non-provisional of	60/056,664	08/22/97
PCT/US98/04482	Non-provisional of	60/056,876	08/22/97
PCT/US98/04482	Non-provisional of	60/056,881	08/22/97
PCT/US98/04482	Non-provisional of	60/056,909	08/22/97
PCT/US98/04482	Non-provisional of	60/056,875	08/22/97
PCT/US98/04482	Non-provisional of	60/056,862	08/22/97
PCT/US98/04482	Non-provisional of	60/056,887	08/22/97
PCT/US98/04482	Non-provisional of	60/056,908	08/22/97
PCT/US98/04482	Non-provisional of	60/048,964	06/06/97
PCT/US98/04482	Non-provisional of	60/057,650	09/05/97
PCT/US98/04482	Non-provisional of	60/056,884	08/22/97
10/100,683	Continuation-in-part of	09/882,171	06/18/01
09/882,171	Non-provisional of	60/190,068	03/17/00
09/882,171	Continuation of	09/809,391	03/16/01
09/809,391	Continuation-in-part of	09/149,476	09/08/98
09/149,476	Continuation-in-part of	PCT/US98/04493	03/06/98
10/100,683	Continuation-in-part of	09/809,391	03/16/01
09/809,391	Non-provisional of	60/190,068	03/17/00
09/809,391	Continuation-in-part of	09/149,476	09/08/98
09/149,476	Continuation-in-part of	PCT/US98/04493	03/06/98
10/100,683	Continuation-in-part of	09/149,476	09/08/98
09/149,476	Continuation-in-part of	PCT/US98/04493	03/06/98
10/100,683	Continuation-in-part of	PCT/US98/04493	03/06/98
PCT/US98/04493	Non-provisional of	60/040,161	03/07/97
PCT/US98/04493	Non-provisional of	60/040,162	03/07/97
PCT/US98/04493	Non-provisional of	60/040,333	03/07/97
PCT/US98/04493	Non-provisional of	60/038,621	03/07/97
PCT/US98/04493	Non-provisional of	60/040,626	03/07/97
PCT/US98/04493	Non-provisional of	60/040,334	03/07/97
PCT/US98/04493	Non-provisional of	60/040,336	03/07/97
PCT/US98/04493	Non-provisional of	60/040,163	03/07/97
PCT/US98/04493	Non-provisional of	60/047,600	05/23/97
PCT/US98/04493	Non-provisional of	60/047,615	05/23/97
PCT/US98/04493	Non-provisional of	60/047,597	05/23/97
PCT/US98/04493	Non-provisional of	60/047,502	05/23/97
PCT/US98/04493	Non-provisional of	60/047,633	05/23/97
PCT/US98/04493	Non-provisional of	60/047,583	05/23/97

PCT/US98/04493	Non-provisional of	60/047,617	05/23/97
PCT/US98/04493	Non-provisional of	60/047,618	05/23/97
PCT/US98/04493	Non-provisional of	60/047,503	05/23/97
PCT/US98/04493	Non-provisional of	60/047,592	05/23/97
PCT/US98/04493	Non-provisional of	60/047,581	05/23/97
PCT/US98/04493	Non-provisional of	60/047,584	05/23/97
PCT/US98/04493	Non-provisional of	60/047,500	05/23/97
PCT/US98/04493	Non-provisional of	60/047,587	05/23/97
PCT/US98/04493	Non-provisional of	60/047,492	05/23/97
PCT/US98/04493	Non-provisional of	60/047,598	05/23/97
PCT/US98/04493	Non-provisional of	60/047,613	05/23/97
PCT/US98/04493	Non-provisional of	60/047,582	05/23/97
PCT/US98/04493	Non-provisional of	60/047,596	05/23/97
PCT/US98/04493	Non-provisional of	60/047,612	05/23/97
PCT/US98/04493	Non-provisional of	60/047,632	05/23/97
PCT/US98/04493	Non-provisional of	60/047,601	05/23/97
PCT/US98/04493	Non-provisional of	60/043,580	04/11/97
PCT/US98/04493	Non-provisional of	60/043,568	04/11/97
PCT/US98/04493	Non-provisional of	60/043,314	04/11/97
PCT/US98/04493	Non-provisional of	60/043,569	04/11/97
PCT/US98/04493	Non-provisional of	60/043,311	04/11/97
PCT/US98/04493	Non-provisional of	60/043,671	04/11/97
PCT/US98/04493	Non-provisional of	60/043,674	04/11/97
PCT/US98/04493	Non-provisional of	60/043,669	04/11/97
PCT/US98/04493	Non-provisional of	60/043,312	04/11/97
PCT/US98/04493	Non-provisional of	60/043,313	04/11/97
PCT/US98/04493	Non-provisional of	60/043,672	04/11/97
PCT/US98/04493	Non-provisional of	60/043,315	04/11/97
PCT/US98/04493	Non-provisional of	60/048,974	06/06/97
PCT/US98/04493	Non-provisional of	60/056,886	08/22/97
PCT/US98/04493	Non-provisional of	60/056,877	08/22/97
PCT/US98/04493	Non-provisional of	60/056,889	08/22/97
PCT/US98/04493	Non-provisional of	60/056,893	08/22/97
PCT/US98/04493	Non-provisional of	60/056,630	08/22/97
PCT/US98/04493	Non-provisional of	60/056,878	08/22/97
PCT/US98/04493	Non-provisional of	60/056,662	08/22/97
PCT/US98/04493	Non-provisional of	60/056,872	08/22/97
PCT/US98/04493	Non-provisional of	60/056,882	08/22/97
PCT/US98/04493	Non-provisional of	60/056,637	08/22/97
PCT/US98/04493	Non-provisional of	60/056,903	08/22/97
PCT/US98/04493	Non-provisional of	60/056,888	08/22/97
PCT/US98/04493	Non-provisional of	60/056,879	08/22/97
PCT/US98/04493	Non-provisional of	60/056,880	08/22/97
PCT/US98/04493	Non-provisional of	60/056,894	08/22/97
PCT/US98/04493	Non-provisional of	60/056,911	08/22/97
PCT/US98/04493	Non-provisional of	60/056,636	08/22/97
PCT/US98/04493	Non-provisional of	60/056,874	08/22/97
PCT/US98/04493	Non-provisional of	60/056,910	08/22/97

PCT/US98/04493	Non-provisional of	60/056,864	08/22/97
PCT/US98/04493	Non-provisional of	60/056,631	08/22/97
PCT/US98/04493	Non-provisional of	60/056,845	08/22/97
PCT/US98/04493	Non-provisional of	60/056,892	08/22/97
PCT/US98/04493	Non-provisional of	60/057,761	09/05/97
PCT/US98/04493	Non-provisional of	60/047,595	05/23/97
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PCT/US98/04493	Non-provisional of	60/047,585	05/23/97
PCT/US98/04493	Non-provisional of	60/047,586	05/23/97
PCT/US98/04493	Non-provisional of	60/047,590	05/23/97
PCT/US98/04493	Non-provisional of	60/047,594	05/23/97
PCT/US98/04493	Non-provisional of	60/047,589	05/23/97
PCT/US98/04493	Non-provisional of	60/047,593	05/23/97
PCT/US98/04493	Non-provisional of	60/047,614	05/23/97
PCT/US98/04493	Non-provisional of	60/043,578	04/11/97
PCT/US98/04493	Non-provisional of	60/043,576	04/11/97
PCT/US98/04493	Non-provisional of	60/047,501	05/23/97
PCT/US98/04493	Non-provisional of	60/043,670	04/11/97
PCT/US98/04493	Non-provisional of	60/056,632	08/22/97
PCT/US98/04493	Non-provisional of	60/056,664	08/22/97
PCT/US98/04493	Non-provisional of	60/056,876	08/22/97
PCT/US98/04493	Non-provisional of	60/056,881	08/22/97
PCT/US98/04493	Non-provisional of	60/056,909	08/22/97
PCT/US98/04493	Non-provisional of	60/056,875	08/22/97
PCT/US98/04493	Non-provisional of	60/056,862	08/22/97
PCT/US98/04493	Non-provisional of	60/056,887	08/22/97
PCT/US98/04493	Non-provisional of	60/056,908	08/22/97
PCT/US98/04493	Non-provisional of	60/048,964	06/06/97
PCT/US98/04493	Non-provisional of	60/057,650	09/05/97
PCT/US98/04493	Non-provisional of	60/056,884	08/22/97
PCT/US98/04493	Non-provisional of	60/057,669	09/05/97
PCT/US98/04493	Non-provisional of	60/049,610	06/13/97
PCT/US98/04493	Non-provisional of	60/061,060	10/02/97
PCT/US98/04493	Non-provisional of	60/051,926	07/08/97
PCT/US98/04493	Non-provisional of	60/052,874	07/16/97
PCT/US98/04493	Non-provisional of	60/058,785	09/12/97
PCT/US98/04493	Non-provisional of	60/055,724	08/18/97
10/100,683	Continuation-in-part of	10/058,993	01/30/02
10/058,993	Non-provisional of	60/265,583	02/02/01
10/058,993	Continuation-in-part of	09/852,659	05/11/01
09/852,659	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/058,993	Continuation-in-part of	09/853,161	05/11/01
09/853,161	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/058,993	Continuation-in-part of	09/852,797	05/11/01
09/852,797	Continuation-in-part of	09/152,060	09/11/98

09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/100,683	Continuation-in-part of	09/852,659	05/11/01
09/852,659	Non-provisional of	60/265,583	02/02/01
09/852,659	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/100,683	Continuation-in-part of	09/853,161	05/11/01
09/853,161	Non-provisional of	60/265,583	02/02/01
09/853,161	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/100,683	Continuation-in-part of	09/852,797	05/11/01
09/852,797	Non-provisional of	60/265,583	02/02/01
09/852,797	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/100,683	Continuation-in-part of	09/152,060	09/11/98
09/152,060	Continuation-in-part of	PCT/US98/04858	03/12/98
10/100,683	Continuation-in-part of	PCT/US98/04858	03/12/98
PCT/US98/04858	Non-provisional of	60/040,762	03/14/97
PCT/US98/04858	Non-provisional of	60/040,710	03/14/97
PCT/US98/04858	Non-provisional of	60/050,934	05/30/97
PCT/US98/04858	Non-provisional of	60/048,100	05/30/97
PCT/US98/04858	Non-provisional of	60/048,357	05/30/97
PCT/US98/04858	Non-provisional of	60/048,189	05/30/97
PCT/US98/04858	Non-provisional of	60/057,765	09/05/97
PCT/US98/04858	Non-provisional of	60/048,970	06/06/97
PCT/US98/04858	Non-provisional of	60/068,368	12/19/97
10/100,683	Continuation-in-part of	10/059,395	01/31/02
10/059,395	Divisional of	09/966,262	10/01/01
09/966,262	Continuation of	09/154,707	09/17/98
09/154,707	Continuation-in-part of	PCT/US98/05311	03/19/98
10/100,683	Continuation-in-part of	09/984,245	10/29/01
09/984,245	Divisional of	09/154,707	09/17/98
09/154,707	Continuation-in-part of	PCT/US98/05311	03/19/98
10/100,683	Continuation-in-part of	09/983,966	10/26/01
09/983,966	Divisional of	09/154,707	09/17/98
09/154,707	Continuation-in-part of	PCT/US98/05311	03/19/98
10/100,683	Continuation-in-part of	09/966,262	10/01/01
09/966,262	Continuation of	09/154,707	09/17/98
09/154,707	Continuation-in-part of	PCT/US98/05311	03/19/98
10/100,683	Continuation-in-part of	09/154,707	09/17/98
09/154,707	Continuation-in-part of	PCT/US98/05311	03/19/98
10/100,683	Continuation-in-part of	PCT/US98/05311	03/03/98
PCT/US98/05311	Non-provisional of	60/041,277	03/21/97
PCT/US98/05311	Non-provisional of	60/042,344	03/21/97
PCT/US98/05311	Non-provisional of	60/041,276	03/21/97
PCT/US98/05311	Non-provisional of	60/041,281	03/21/97
PCT/US98/05311	Non-provisional of	60/048,094	05/30/97
PCT/US98/05311	Non-provisional of	60/048,350	05/30/97
PCT/US98/05311	Non-provisional of	60/048,188	05/30/97

PCT/US98/05311	Non-provisional of	60/048,135	05/30/97
PCT/US98/05311	Non-provisional of	60/050,937	05/30/97
PCT/US98/05311	Non-provisional of	60/048,187	05/30/97
PCT/US98/05311	Non-provisional of	60/048,099	05/30/97
PCT/US98/05311	Non-provisional of	60/048,352	05/30/97
PCT/US98/05311	Non-provisional of	60/048,186	05/30/97
PCT/US98/05311	Non-provisional of	60/048,069	05/30/97
PCT/US98/05311	Non-provisional of	60/048,095	05/30/97
PCT/US98/05311	Non-provisional of	60/048,131	05/30/97
PCT/US98/05311	Non-provisional of	60/048,096	05/30/97
PCT/US98/05311	Non-provisional of	60/048,355	05/30/97
PCT/US98/05311	Non-provisional of	60/048,160	05/30/97
PCT/US98/05311	Non-provisional of	60/048,351	05/30/97
PCT/US98/05311	Non-provisional of	60/048,154	05/30/97
PCT/US98/05311	Non-provisional of	60/054,804	08/05/97
PCT/US98/05311	Non-provisional of	60/056,370	08/19/97
PCT/US98/05311	Non-provisional of	60/060,862	10/02/97
10/100,683	Continuation-in-part of	09/814,122	03/22/01
09/814,122	Continuation of	09/577,145	05/24/00
09/577,145	Continuation of	09/166,780	10/06/98
09/166,780	Continuation-in-part of	PCT/US98/06801	04/07/98
10/100,683	Continuation-in-part of	PCT/US98/06801	04/07/98
PCT/US98/06801	Non-provisional of	60/042,726	04/08/97
PCT/US98/06801	Non-provisional of	60/042,727	04/08/97
PCT/US98/06801	Non-provisional of	60/042,728	04/08/97
PCT/US98/06801	Non-provisional of	60/042,754	04/08/97
PCT/US98/06801	Non-provisional of	60/042,825	04/08/97
PCT/US98/06801	Non-provisional of	60/048,068	05/30/97
PCT/US98/06801	Non-provisional of	60/048,070	05/30/97
PCT/US98/06801	Non-provisional of	60/048,184	05/30/97
10/100,683	Continuation-in-part of	PCT/US98/06801	04/07/97
PCT/US98/06801	Non-provisional of	60/042,726	04/08/97
PCT/US98/06801	Non-provisional of	60/042,727	04/08/97
PCT/US98/06801	Non-provisional of	60/042,728	04/08/97
PCT/US98/06801	Non-provisional of	60/042,754	04/08/97
PCT/US98/06801	Non-provisional of	60/042,825	04/08/97
PCT/US98/06801	Non-provisional of	60/048,068	05/30/97
PCT/US98/06801	Non-provisional of	60/048,070	05/30/97
PCT/US98/06801	Non-provisional of	60/048,184	05/30/97
10/100,683	Continuation-in-part of	PCT/US98/10868	05/28/98
PCT/US98/10868	Non-provisional of	60/044,039	05/30/97
PCT/US98/10868	Non-provisional of	60/048,093	05/30/97
PCT/US98/10868	Non-provisional of	60/048,190	05/30/97
PCT/US98/10868	Non-provisional of	60/050,935	05/30/97
PCT/US98/10868	Non-provisional of	60/048,101	05/30/97
PCT/US98/10868	Non-provisional of	60/048,356	05/30/97
PCT/US98/10868	Non-provisional of	60/056,250	08/29/97

PCT/US98/10868	Non-provisional of	60/056,296	08/29/97
PCT/US98/10868	Non-provisional of	60/056,293	08/29/97
10/100,683	Continuation-in-part of	PCT/US98/11422	06/04/98
PCT/US98/11422	Non-provisional of	60/048,885	06/06/97
PCT/US98/11422	Non-provisional of	60/049,375	06/06/97
PCT/US98/11422	Non-provisional of	60/048,881	06/06/97
PCT/US98/11422	Non-provisional of	60/048,880	06/06/97
PCT/US98/11422	Non-provisional of	60/048,896	06/06/97
PCT/US98/11422	Non-provisional of	60/049,020	06/06/97
PCT/US98/11422	Non-provisional of	60/048,876	06/06/97
PCT/US98/11422	Non-provisional of	60/048,895	06/06/97
PCT/US98/11422	Non-provisional of	60/048,884	06/06/97
PCT/US98/11422	Non-provisional of	60/048,894	06/06/97
PCT/US98/11422	Non-provisional of	60/048,971	06/06/97
PCT/US98/11422	Non-provisional of	60/048,964	06/06/97
PCT/US98/11422	Non-provisional of	60/048,882	06/06/97
PCT/US98/11422	Non-provisional of	60/048,899	06/06/97
PCT/US98/11422	Non-provisional of	60/048,893	06/06/97
PCT/US98/11422	Non-provisional of	60/048,900	06/06/97
PCT/US98/11422	Non-provisional of	60/048,901	06/06/97
PCT/US98/11422	Non-provisional of	60/048,892	06/06/97
PCT/US98/11422	Non-provisional of	60/048,915	06/06/97
PCT/US98/11422	Non-provisional of	60/049,019	06/06/97
PCT/US98/11422	Non-provisional of	60/048,970	06/06/97
PCT/US98/11422	Non-provisional of	60/048,972	06/06/97
PCT/US98/11422	Non-provisional of	60/048,916	06/06/97
PCT/US98/11422	Non-provisional of	60/049,373	06/06/97
PCT/US98/11422	Non-provisional of	60/048,875	06/06/97
PCT/US98/11422	Non-provisional of	60/049,374	06/06/97
PCT/US98/11422	Non-provisional of	60/048,917	06/06/97
PCT/US98/11422	Non-provisional of	60/048,949	06/06/97
PCT/US98/11422	Non-provisional of	60/048,974	06/06/97
PCT/US98/11422	Non-provisional of	60/048,883	06/06/97
PCT/US98/11422	Non-provisional of	60/048,897	06/06/97
PCT/US98/11422	Non-provisional of	60/048,898	06/06/97
PCT/US98/11422	Non-provisional of	60/048,962	06/06/97
PCT/US98/11422	Non-provisional of	60/048,963	06/06/97
PCT/US98/11422	Non-provisional of	60/048,877	06/06/97
PCT/US98/11422	Non-provisional of	60/048,878	06/06/97
PCT/US98/11422	Non-provisional of	60/057,645	09/05/97
PCT/US98/11422	Non-provisional of	60/057,642	09/05/97
PCT/US98/11422	Non-provisional of	60/057,668	09/05/97
PCT/US98/11422	Non-provisional of	60/057,635	09/05/97
PCT/US98/11422	Non-provisional of	60/057,627	09/05/97
PCT/US98/11422	Non-provisional of	60/057,667	09/05/97
PCT/US98/11422	Non-provisional of	60/057,666	09/05/97
PCT/US98/11422	Non-provisional of	60/057,764	09/05/97
PCT/US98/11422	Non-provisional of	60/057,643	09/05/97

PCT/US98/11422	Non-provisional of	60/057,769	09/05/97
PCT/US98/11422	Non-provisional of	60/057,763	09/05/97
PCT/US98/11422	Non-provisional of	60/057,650	09/05/97
PCT/US98/11422	Non-provisional of	60/057,584	09/05/97
PCT/US98/11422	Non-provisional of	60/057,647	09/05/97
PCT/US98/11422	Non-provisional of	60/057,661	09/05/97
PCT/US98/11422	Non-provisional of	60/057,662	09/05/97
PCT/US98/11422	Non-provisional of	60/057,646	09/05/97
PCT/US98/11422	Non-provisional of	60/057,654	09/05/97
PCT/US98/11422	Non-provisional of	60/057,651	09/05/97
PCT/US98/11422	Non-provisional of	60/057,644	09/05/97
PCT/US98/11422	Non-provisional of	60/057,765	09/05/97
PCT/US98/11422	Non-provisional of	60/057,762	09/05/97
PCT/US98/11422	Non-provisional of	60/057,775	09/05/97
PCT/US98/11422	Non-provisional of	60/057,648	09/05/97
PCT/US98/11422	Non-provisional of	60/057,774	09/05/97
PCT/US98/11422	Non-provisional of	60/057,649	09/05/97
PCT/US98/11422	Non-provisional of	60/057,770	09/05/97
PCT/US98/11422	Non-provisional of	60/057,771	09/05/97
PCT/US98/11422	Non-provisional of	60/057,761	09/05/97
PCT/US98/11422	Non-provisional of	60/057,760	09/05/97
PCT/US98/11422	Non-provisional of	60/057,776	09/05/97
PCT/US98/11422	Non-provisional of	60/057,778	09/05/97
PCT/US98/11422	Non-provisional of	60/057,629	09/05/97
PCT/US98/11422	Non-provisional of	60/057,628	09/05/97
PCT/US98/11422	Non-provisional of	60/057,777	09/05/97
PCT/US98/11422	Non-provisional of	60/057,634	09/05/97
PCT/US98/11422	Non-provisional of	60/070,923	12/18/97
10/100,683	Continuation-in-part of	PCT/US01/05614	02/21/01
PCT/US01/05614	Non-provisional of	60/184,836	02/24/00
PCT/US01/05614	Non-provisional of	60/193,170	03/29/00
10/100,683	Continuation-in-part of	PCT/US98/12125	06/11/98
PCT/US98/12125	Non-provisional of	60/049,547	06/13/97
PCT/US98/12125	Non-provisional of	60/049,548	06/13/97
PCT/US98/12125	Non-provisional of	60/049,549	06/13/97
PCT/US98/12125	Non-provisional of	60/049,550	06/13/97
PCT/US98/12125	Non-provisional of	60/049,566	06/13/97
PCT/US98/12125	Non-provisional of	60/049,606	06/13/97
PCT/US98/12125	Non-provisional of	60/049,607	06/13/97
PCT/US98/12125	Non-provisional of	60/049,608	06/13/97
PCT/US98/12125	Non-provisional of	60/049,609	06/13/97
PCT/US98/12125	Non-provisional of	60/049,610	06/13/97
PCT/US98/12125	Non-provisional of	60/049,611	06/13/97
PCT/US98/12125	Non-provisional of	60/050,901	06/13/97
PCT/US98/12125	Non-provisional of	60/052,989	06/13/97
PCT/US98/12125	Non-provisional of	60/051,919	07/08/97
PCT/US98/12125	Non-provisional of	60/055,984	08/18/97
PCT/US98/12125	Non-provisional of	60/058,665	09/12/97

PCT/US98/12125	Non-provisional of	60/058,668	09/12/97
PCT/US98/12125	Non-provisional of	60/058,669	09/12/97
PCT/US98/12125	Non-provisional of	60/058,750	09/12/97
PCT/US98/12125	Non-provisional of	60/058,971	09/12/97
PCT/US98/12125	Non-provisional of	60/058,972	09/12/97
PCT/US98/12125	Non-provisional of	60/058,975	09/12/97
PCT/US98/12125	Non-provisional of	60/060,834	10/02/97
PCT/US98/12125	Non-provisional of	60/060,841	10/02/97
PCT/US98/12125	Non-provisional of	60/060,844	10/02/97
PCT/US98/12125	Non-provisional of	60/060,865	10/02/97
PCT/US98/12125	Non-provisional of	60/061,059	10/02/97
PCT/US98/12125	Non-provisional of	60/061,060	10/02/97
10/100,683	Continuation-in-part of	09/627,081	07/27/00
09/627,081	Continuation of	09/213,365	12/17/98
09/213,365	Continuation-in-part of	PCT/US98/13608	06/30/98
10/100,683	Continuation-in-part of	PCT/US98/13608	06/30/98
PCT/US98/13608	Non-provisional of	60/051,480	07/01/97
PCT/US98/13608	Non-provisional of	60/051,381	07/01/97
PCT/US98/13608	Non-provisional of	60/058,663	09/12/97
PCT/US98/13608	Non-provisional of	60/058,598	09/12/97
10/100,683	Continuation-in-part of	09/984,490	10/30/01
09/984,490	Divisional of	09/227,357	01/08/99
09/227,357	Continuation-in-part of	PCT/US98/13684	07/07/98
10/100,683	Continuation-in-part of	09/983,802	10/25/01
09/983,802	Continuation of	09/227,357	10/10/01
09/227,357	Continuation-in-part of	PCT/US98/13684	07/07/98
10/100,683	Continuation-in-part of	09/973,278	10/10/01
09/973,278	Non-provisional of	60/239,899	10/13/00
09/973,278	Continuation-in-part of	09/227,357	01/08/99
09/227,357	Continuation-in-part of	PCT/US98/13684	07/07/98
10/100,683	Continuation-in-part of	PCT/US98/13684	07/07/98
PCT/US98/13684	Non-provisional of	60/051,926	07/08/97
PCT/US98/13684	Non-provisional of	60/052,793	07/08/97
PCT/US98/13684	Non-provisional of	60/051,925	07/08/97
PCT/US98/13684	Non-provisional of	60/051,929	07/08/97
PCT/US98/13684	Non-provisional of	60/052,803	07/08/97
PCT/US98/13684	Non-provisional of	60/052,732	07/08/97
PCT/US98/13684	Non-provisional of	60/051,931	07/08/97
PCT/US98/13684	Non-provisional of	60/051,932	07/08/97
PCT/US98/13684	Non-provisional of	60/051,916	07/08/97
PCT/US98/13684	Non-provisional of	60/051,930	07/08/97
PCT/US98/13684	Non-provisional of	60/051,918	07/08/97
PCT/US98/13684	Non-provisional of	60/051,920	07/08/97
PCT/US98/13684	Non-provisional of	60/052,733	07/08/97
PCT/US98/13684	Non-provisional of	60/052,795	07/08/97
PCT/US98/13684	Non-provisional of	60/051,919	07/08/97
PCT/US98/13684	Non-provisional of	60/051,928	07/08/97
PCT/US98/13684	Non-provisional of	60/055,722	08/18/97

PCT/US98/13684	Non-provisional of	60/055,723	08/18/97
PCT/US98/13684	Non-provisional of	60/055,948	08/18/97
PCT/US98/13684	Non-provisional of	60/055,949	08/18/97
PCT/US98/13684	Non-provisional of	60/055,953	08/18/97
PCT/US98/13684	Non-provisional of	60/055,950	08/18/97
PCT/US98/13684	Non-provisional of	60/055,947	08/18/97
PCT/US98/13684	Non-provisional of	60/055,964	08/18/97
PCT/US98/13684	Non-provisional of	60/056,360	08/18/97
PCT/US98/13684	Non-provisional of	60/055,684	08/18/97
PCT/US98/13684	Non-provisional of	60/055,984	08/18/97
PCT/US98/13684	Non-provisional of	60/055,954	08/18/97
PCT/US98/13684	Non-provisional of	60/058,785	09/12/97
PCT/US98/13684	Non-provisional of	60/058,664	09/12/97
PCT/US98/13684	Non-provisional of	60/058,660	09/12/97
PCT/US98/13684	Non-provisional of	60/058,661	09/12/97
10/100,683	Continuation-in-part of	09/776,724	02/06/01
09/776,724	Non-provisional of	60/180,909	02/08/00
09/776,724	Continuation-in-part of	09/669,688	09/26/00
09/669,688	Continuation of	09/229,982	01/14/99
09/229,982	Continuation-in-part of	PCT/US98/14613	07/15/98
10/100,683	Continuation-in-part of	09/669,688	09/26/00
09/669,688	Continuation of	09/229,982	01/14/99
09/229,982	Continuation-in-part of	PCT/US98/14613	07/15/98
10/100,683	Continuation-in-part of	09/229,982	01/14/99
09/229,982	Continuation-in-part of	PCT/US98/14613	07/15/98
10/100,683	Continuation-in-part of	PCT/US98/14613	07/15/98
PCT/US98/14613	Non-provisional of	60/052,661	07/16/97
PCT/US98/14613	Non-provisional of	60/052,872	07/16/97
PCT/US98/14613	Non-provisional of	60/052,871	07/16/97
PCT/US98/14613	Non-provisional of	60/052,874	07/16/97
PCT/US98/14613	Non-provisional of	60/052,873	07/16/97
PCT/US98/14613	Non-provisional of	60/052,870	07/16/97
PCT/US98/14613	Non-provisional of	60/052,875	07/16/97
PCT/US98/14613	Non-provisional of	60/053,440	07/22/97
PCT/US98/14613	Non-provisional of	60/053,441	07/22/97
PCT/US98/14613	Non-provisional of	60/053,442	07/22/97
PCT/US98/14613	Non-provisional of	60/056,359	08/18/97
PCT/US98/14613	Non-provisional of	60/055,725	08/18/97
PCT/US98/14613	Non-provisional of	60/055,985	08/18/97
PCT/US98/14613	Non-provisional of	60/055,952	08/18/97
PCT/US98/14613	Non-provisional of	60/055,989	08/18/97
PCT/US98/14613	Non-provisional of	60/056,361	08/18/97
PCT/US98/14613	Non-provisional of	60/055,726	08/18/97
PCT/US98/14613	Non-provisional of	60/055,724	08/18/97
PCT/US98/14613	Non-provisional of	60/055,946	08/18/97
PCT/US98/14613	Non-provisional of	60/055,683	08/18/97
10/100,683	Non-provisional of	60/295,558	06/05/01
10/100,683	Continuation-in-part of	09/820,649	03/30/01

09/820,649	Continuation of	09/666,984	09/21/00
09/666,984	Continuation of	09/236,557	01/26/99
09/236,557	Continuation-in-part of	PCT/US98/15949	07/29/98
10/100,683	Continuation-in-part of	PCT/US98/15949	07/29/98
PCT/US98/15949	Non-provisional of	60/054,212	07/30/97
PCT/US98/15949	Non-provisional of	60/054,209	07/30/97
PCT/US98/15949	Non-provisional of	60/054,234	07/30/97
PCT/US98/15949	Non-provisional of	60/054,218	07/30/97
PCT/US98/15949	Non-provisional of	60/054,214	07/30/97
PCT/US98/15949	Non-provisional of	60/054,236	07/30/97
PCT/US98/15949	Non-provisional of	60/054,215	07/30/97
PCT/US98/15949	Non-provisional of	60/054,211	07/30/97
PCT/US98/15949	Non-provisional of	60/054,217	07/30/97
PCT/US98/15949	Non-provisional of	60/054,213	07/30/97
PCT/US98/15949	Non-provisional of	60/055,968	08/18/97
PCT/US98/15949	Non-provisional of	60/055,969	08/18/97
PCT/US98/15949	Non-provisional of	60/055,972	08/18/97
PCT/US98/15949	Non-provisional of	60/056,561	08/19/97
PCT/US98/15949	Non-provisional of	60/056,534	08/19/97
PCT/US98/15949	Non-provisional of	60/056,729	08/19/97
PCT/US98/15949	Non-provisional of	60/056,543	08/19/97
PCT/US98/15949	Non-provisional of	60/056,727	08/19/97
PCT/US98/15949	Non-provisional of	60/056,554	08/19/97
PCT/US98/15949	Non-provisional of	60/056,730	08/19/97
10/100,683	Continuation-in-part of	09/969,730	10/04/01
09/969,730	Continuation-in-part of	09/774,639	02/01/01
09/774,639	Continuation of	09/244,112	02/04/99
09/244,112	Continuation-in-part of	PCT/US98/16235	08/04/98
10/100,683	Continuation-in-part of	09/774,639	02/01/01
09/774,639	Continuation of	09/244,112	02/04/99
09/244,112	Continuation-in-part of	PCT/US98/16235	08/04/98
10/100,683	Continuation-in-part of	09/969,730	10/04/01
09/969,730	Non-provisional of	60/238,291	10/06/00
10/100,683	Continuation-in-part of	PCT/US98/16235	08/04/98
PCT/US98/16235	Non-provisional of	60/055,386	08/05/97
PCT/US98/16235	Non-provisional of	60/054,807	08/05/97
PCT/US98/16235	Non-provisional of	60/055,312	08/05/97
PCT/US98/16235	Non-provisional of	60/055,309	08/05/97
PCT/US98/16235	Non-provisional of	60/054,798	08/05/97
PCT/US98/16235	Non-provisional of	60/055,310	08/05/97
PCT/US98/16235	Non-provisional of	60/054,806	08/05/97
PCT/US98/16235	Non-provisional of	60/054,809	08/05/97
PCT/US98/16235	Non-provisional of	60/054,804	08/05/97
PCT/US98/16235	Non-provisional of	60/054,803	08/05/97
PCT/US98/16235	Non-provisional of	60/054,808	08/05/97
PCT/US98/16235	Non-provisional of	60/055,311	08/05/97
PCT/US98/16235	Non-provisional of	60/055,986	08/18/97
PCT/US98/16235	Non-provisional of	60/055,970	08/18/97

PCT/US98/16235	Non-provisional of	60/056,563	08/19/97
PCT/US98/16235	Non-provisional of	60/056,557	08/19/97
PCT/US98/16235	Non-provisional of	60/056,731	08/19/97
PCT/US98/16235	Non-provisional of	60/056,365	08/19/97
PCT/US98/16235	Non-provisional of	60/056,367	08/19/97
PCT/US98/16235	Non-provisional of	60/056,370	08/19/97
PCT/US98/16235	Non-provisional of	60/056,364	08/19/97
PCT/US98/16235	Non-provisional of	60/056,366	08/19/97
PCT/US98/16235	Non-provisional of	60/056,732	08/19/97
PCT/US98/16235	Non-provisional of	60/056,371	08/19/97
10/100,683	Continuation-in-part of	09/716,128	11/17/00
09/716,128	Continuation of	09/251,329	02/17/99
09/251,329	Continuation-in-part of	PCT/US98/17044	08/18/98
10/100,683	Continuation-in-part of	PCT/US98/17044	08/18/98
PCT/US98/17044	Non-provisional of	60/056,555	08/19/97
PCT/US98/17044	Non-provisional of	60/056,556	08/19/97
PCT/US98/17044	Non-provisional of	60/056,535	08/19/97
PCT/US98/17044	Non-provisional of	60/056,629	08/19/97
PCT/US98/17044	Non-provisional of	60/056,369	08/19/97
PCT/US98/17044	Non-provisional of	60/056,628	08/19/97
PCT/US98/17044	Non-provisional of	60/056,728	08/19/97
PCT/US98/17044	Non-provisional of	60/056,368	08/19/97
PCT/US98/17044	Non-provisional of	60/056,726	08/19/97
PCT/US98/17044	Non-provisional of	60/089,510	06/16/98
PCT/US98/17044	Non-provisional of	60/092,956	07/15/98
10/100,683	Continuation-in-part of	09/729,835	12/06/00
09/729,835	Divisional of	09/257,179	02/25/99
09/257,179	Continuation-in-part of	PCT/US98/17709	08/27/98
10/100,683	Continuation-in-part of	09/257,179	02/25/99
09/257,179	Continuation-in-part of	PCT/US98/17709	08/27/98
10/100,683	Continuation-in-part of	PCT/US98/17709	08/27/98
PCT/US98/17709	Non-provisional of	60/056,270	08/29/97
PCT/US98/17709	Non-provisional of	60/056,271	08/29/97
PCT/US98/17709	Non-provisional of	60/056,247	08/29/97
PCT/US98/17709	Non-provisional of	60/056,073	08/29/97
10/100,683	Continuation-in-part of	10/047,021	01/17/02
10/047,021	Continuation-in-part of	09/722,329	11/28/00
09/722,329	Continuation of	09/262,109	03/04/99
09/262,109	Continuation-in-part of	PCT/US98/18360	09/03/98
10/100,683	Continuation-in-part of	09/722,329	11/28/00
09/722,329	Continuation of	09/262,109	03/04/99
09/262,109	Continuation-in-part of	PCT/US98/18360	09/03/98
10/100,683	Continuation-in-part of	PZ016pct2	01/17/02
PZ016pct2	Non-provisional of	60/262,066	01/18/01
10/100,683	Continuation-in-part of	PCT/US98/18360	09/03/98

PCT/US98/18360	Non-provisional of	60/057,626	09/05/97
PCT/US98/18360	Non-provisional of	60/057,663	09/05/97
PCT/US98/18360	Non-provisional of	60/057,669	09/05/97
PCT/US98/18360	Non-provisional of	60/058,667	09/12/97
PCT/US98/18360	Non-provisional of	60/058,974	09/12/97
PCT/US98/18360	Non-provisional of	60/058,973	09/12/97
PCT/US98/18360	Non-provisional of	60/058,666	09/12/97
PCT/US98/18360	Non-provisional of	60/090,112	06/22/98
10/100,683	Continuation-in-part of	09/281,976	03/31/99
09/281,976	Continuation-in-part of	PCT/US98/20775	10/01/98
10/100,683	Continuation-in-part of	PCT/US98/20775	10/01/98
PCT/US98/20775	Non-provisional of	60/060,837	10/02/97
PCT/US98/20775	Non-provisional of	60/060,862	10/02/97
PCT/US98/20775	Non-provisional of	60/060,839	10/02/97
PCT/US98/20775	Non-provisional of	60/060,866	10/02/97
PCT/US98/20775	Non-provisional of	60/060,843	10/02/97
PCT/US98/20775	Non-provisional of	60/060,836	10/02/97
PCT/US98/20775	Non-provisional of	60/060,838	10/02/97
PCT/US98/20775	Non-provisional of	60/060,874	10/02/97
PCT/US98/20775	Non-provisional of	60/060,833	10/02/97
PCT/US98/20775	Non-provisional of	60/060,884	10/02/97
PCT/US98/20775	Non-provisional of	60/060,880	10/02/97
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/984,429</u>	10/30/01
09/984,429	Non-provisional of	60/244,591	11/01/00
09/984,429	Continuation-in-part of	09/288,143	04/08/99
09/288,143	Continuation-in-part of	PCT/US98/21142	10/08/98
<u>10/100,683</u>	<u>Non-provisional of</u>	<u>60/244,591</u>	11/01/00
10/100,683	Continuation-in-part of	09/288,143	04/08/99
09/288,143	Continuation-in-part of	PCT/US98/21142	10/08/98
10/100,683	Continuation-in-part of	PCT/US98/21142	10/08/98
PCT/US98/21142	Non-provisional of	60/061,463	10/09/97
PCT/US98/21142	Non-provisional of	60/061,529	10/09/97
PCT/US98/21142	Non-provisional of	60/071,498	10/09/97
PCT/US98/21142	Non-provisional of	60/061,527	10/09/97
PCT/US98/21142	Non-provisional of	60/061,536	10/09/97
PCT/US98/21142	Non-provisional of	60/061,532	10/09/97
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/296,622</u>	04/23/99
09/296,622	Continuation-in-part of	PCT/US98/22376	10/23/98
10/100,683	Continuation-in-part of	PCT/US98/22376	10/23/98
PCT/US98/22376	Non-provisional of	60/063,099	10/24/97
PCT/US98/22376	Non-provisional of	60/063,088	10/24/97
PCT/US98/22376	Non-provisional of	60/063,100	10/24/97
PCT/US98/22376	Non-provisional of	60/063,387	10/24/97
PCT/US98/22376	Non-provisional of	60/063,148	10/24/97

PCT/US98/22376	Non-provisional of	60/063,386	10/24/97
PCT/US98/22376	Non-provisional of	60/062,784	10/24/97
PCT/US98/22376	Non-provisional of	60/063,091	10/24/97
PCT/US98/22376	Non-provisional of	60/063,090	10/24/97
PCT/US98/22376	Non-provisional of	60/063,089	10/24/97
PCT/US98/22376	Non-provisional of	60/063,092	10/24/97
PCT/US98/22376	Non-provisional of	60/063,111	10/24/97
PCT/US98/22376	Non-provisional of	60/063,101	10/24/97
PCT/US98/22376	Non-provisional of	60/063,109	10/24/97
PCT/US98/22376	Non-provisional of	60/063,110	10/24/97
PCT/US98/22376	Non-provisional of	60/063,098	10/24/97
PCT/US98/22376	Non-provisional of	60/063,097	10/24/97
10/100,683	Continuation-in-part of	09/974,879	10/12/01
09/974,879	Non-provisional of	60/239,893	10/13/00
09/974,879	Continuation-in-part of	09/818,683	03/28/01
09/818,683	Continuation of	09/305,736	05/05/99
09/305,736	Continuation-in-part of	PCT/US98/23435	11/04/98
10/100,683	Continuation-in-part of	09/818,683	03/28/01
09/818,683	Continuation of	09/305,736	05/05/99
09/305,736	Continuation-in-part of	PCT/US98/23435	11/04/98
10/100,683	Continuation-in-part of	09/305,736	05/05/99
09/305,736	Continuation-in-part of	PCT/US98/23435	11/04/98
10/100,683	Continuation-in-part of	PCT/US98/23435	11/04/98
PCT/US98/23435	Non-provisional of	60/064,911	11/07/97
PCT/US98/23435	Non-provisional of	60/064,912	11/07/97
PCT/US98/23435	Non-provisional of	60/064,983	11/07/97
PCT/US98/23435	Non-provisional of	60/064,900	11/07/97
PCT/US98/23435	Non-provisional of	60/064,988	11/07/97
PCT/US98/23435	Non-provisional of	60/064,987	11/07/97
PCT/US98/23435	Non-provisional of	60/064,908	11/07/97
PCT/US98/23435	Non-provisional of	60/064,984	11/07/97
PCT/US98/23435	Non-provisional of	60/064,985	11/07/97
PCT/US98/23435	Non-provisional of	60/066,094	11/17/97
PCT/US98/23435	Non-provisional of	60/066,100	11/17/97
PCT/US98/23435	Non-provisional of	60/066,089	11/17/97
PCT/US98/23435	Non-provisional of	60/066,095	11/17/97
PCT/US98/23435	Non-provisional of	60/066,090	11/17/97
10/100,683	Continuation-in-part of	09/334,595	06/17/99
09/334,595	Continuation-in-part of	PCT/US98/27059	12/17/98
10/100,683	Continuation-in-part of	PCT/US98/27059	12/17/98
PCT/US98/27059	Non-provisional of	60/070,923	12/18/97
PCT/US98/27059	Non-provisional of	60/068,007	12/18/97
PCT/US98/27059	Non-provisional of	60/068,057	12/18/97
PCT/US98/27059	Non-provisional of	60/068,006	12/18/97
PCT/US98/27059	Non-provisional of	60/068,369	12/19/97
PCT/US98/27059	Non-provisional of	60/068,367	12/19/97
PCT/US98/27059	Non-provisional of	60/068,368	12/19/97

PCT/US98/27059	Non-provisional of	60/068,169	12/19/97
PCT/US98/27059	Non-provisional of	60/068,053	12/18/97
PCT/US98/27059	Non-provisional of	60/068,064	12/18/97
PCT/US98/27059	Non-provisional of	60/068,054	12/18/97
PCT/US98/27059	Non-provisional of	60/068,008	12/18/97
PCT/US98/27059	Non-provisional of	60/068,365	12/19/97
10/100,683	Continuation-in-part of	09/938,671	08/27/01
09/938,671	Continuation of	09/739,907	12/20/00
09/739,907	Continuation of	09/348,457	07/07/99
09/348,457	Continuation-in-part of	PCT/US99/00108	01/06/99
10/100,683	Continuation-in-part of	09/739,907	12/20/00
09/739,907	Continuation of	09/348,457	07/07/99
09/348,457	Continuation-in-part of	PCT/US99/00108	01/06/99
10/100,683	Continuation-in-part of	09/348,457	07/07/99
09/348,457	Continuation-in-part of	PCT/US99/00108	01/06/99
10/100,683	Continuation-in-part of	PCT/US99/00108	01/06/99
PCT/US99/00108	Non-provisional of	60/070,704	01/07/98
PCT/US99/00108	Non-provisional of	60/070,658	01/07/98
PCT/US99/00108	Non-provisional of	60/070,692	01/07/98
PCT/US99/00108	Non-provisional of	60/070,657	01/07/98
10/100,683	Continuation-in-part of	09/949,925	09/12/01
09/949,925	Non-provisional of	60/232,150	09/12/00
09/949,925	Continuation-in-part of	PCT/US99/01621	01/27/99
09/949,925	Continuation-in-part of	09/363,044	07/29/99
09/363,044	Continuation-in-part of	PCT/US99/01621	01/27/99
10/100,683	Continuation-in-part of	09/813,153	03/21/01
09/813,153	Continuation of	09/363,044	07/29/99
09/363,044	Continuation-in-part of	PCT/US99/01621	01/27/99
10/100,683	Continuation-in-part of	09/363,044	07/29/99
09/363,044	Continuation-in-part of	PCT/US99/01621	01/27/99
10/100,683	Continuation-in-part of	PCT/US99/01621	01/27/99
PCT/US99/01621	Non-provisional of	60/073,170	01/30/98
PCT/US99/01621	Non-provisional of	60/073,167	01/30/98
PCT/US99/01621	Non-provisional of	60/073,165	01/30/98
PCT/US99/01621	Non-provisional of	60/073,164	01/30/98
PCT/US99/01621	Non-provisional of	60/073,162	01/30/98
PCT/US99/01621	Non-provisional of	60/073,161	01/30/98
PCT/US99/01621	Non-provisional of	60/073,160	01/30/98
PCT/US99/01621	Non-provisional of	60/073,159	01/30/98
10/100,683	Continuation-in-part of	10/062,548	02/05/02
10/062,548	Continuation of	09/369,247	08/05/99
09/369,247	Continuation-in-part of	PCT/US99/02293	02/04/99
10/100,683	Continuation-in-part of	09/369,247	08/05/99

09/369,247	Continuation-in-part of	PCT/US99/02293	02/04/99
10/100,683	Continuation-in-part of	PCT/US99/02293	02/04/99
PCT/US99/02293	Non-provisional of	60/074,118	02/09/98
PCT/US99/02293	Non-provisional of	60/074,157	02/09/98
PCT/US99/02293	Non-provisional of	60/074,037	02/09/98
PCT/US99/02293	Non-provisional of	60/074,141	02/09/98
PCT/US99/02293	Non-provisional of	60/074,341	02/09/98
10/100,683	Continuation-in-part of	09/716,129	11/17/00
09/716,129	Continuation-in-part of	PCT/US99/03939	02/24/99
09/716,129	CON	09/382,572	08/25/99
09/382,572	Continuation-in-part of	PCT/US99/03939	02/24/99
10/100,683	Continuation-in-part of	PCT/US99/03939	02/24/99
PCT/US99/03939	Non-provisional of	60/076,053	02/26/98
PCT/US99/03939	Non-provisional of	60/076,051	02/26/98
PCT/US99/03939	Non-provisional of	60/076,054	02/26/98
PCT/US99/03939	Non-provisional of	60/076,052	02/26/98
PCT/US99/03939	Non-provisional of	60/076,057	02/26/98
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/798,889</u>	03/06/01
09/798,889	CON	09/393,022	09/09/99
09/393,022	Continuation-in-part of	PCT/US99/05721	03/11/99
10/100,683	Continuation-in-part of	PCT/US99/05721	03/11/99
PCT/US99/05721	Non-provisional of	60/077,714	03/12/98
PCT/US99/05721	Non-provisional of	60/077,686	03/12/98
PCT/US99/05721	Non-provisional of	60/077,687	03/12/98
PCT/US99/05721	Non-provisional of	60/077,696	03/12/98
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/397,945</u>	09/17/99
09/397,945	Continuation-in-part of	PCT/US99/05804	03/18/99
10/100,683	Continuation-in-part of	PCT/US99/05804	03/18/99
PCT/US99/05804	Non-provisional of	60/078,566	03/19/98
PCT/US99/05804	Non-provisional of	60/078,576	03/19/98
PCT/US99/05804	Non-provisional of	60/078,573	03/19/98
PCT/US99/05804	Non-provisional of	60/078,574	03/19/98
PCT/US99/05804	Non-provisional of	60/078,579	03/19/98
PCT/US99/05804	Non-provisional of	60/080,314	04/01/98
PCT/US99/05804	Non-provisional of	60/080,312	04/01/98
PCT/US99/05804	Non-provisional of	60/078,578	03/19/98
PCT/US99/05804	Non-provisional of	60/078,581	03/19/98
PCT/US99/05804	Non-provisional of	60/078,577	03/19/98
PCT/US99/05804	Non-provisional of	60/078,563	03/19/98
PCT/US99/05804	Non-provisional of	60/080,313	04/01/98
10/100,683	Continuation-in-part of	09/948,783	09/10/01

<u>09/948,783</u>	<u>Non-provisional of</u>	<u>60/231,846</u>	09/11/00
<u>09/948,783</u>	<u>Continuation-in-part of</u>	<u>09/892,877</u>	06/28/01
<u>09/892,877</u>	<u>Continuation of</u>	<u>09/437,658</u>	11/10/99
09/437,658	Continuation-in-part of	PCT/US99/09847	05/06/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/892,877</u>	06/28/01
<u>09/892,877</u>	<u>Continuation of</u>	<u>09/437,658</u>	11/10/99
09/437,658	Continuation-in-part of	PCT/US99/09847	05/06/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/09847</u>	05/06/99
PCT/US99/09847	Non-provisional of	60/085,093	05/12/98
PCT/US99/09847	Non-provisional of	60/085,094	05/12/98
PCT/US99/09847	Non-provisional of	60/085,105	05/12/98
PCT/US99/09847	Non-provisional of	60/085,180	05/12/98
PCT/US99/09847	Non-provisional of	60/085,927	05/18/98
PCT/US99/09847	Non-provisional of	60/085,906	05/18/98
PCT/US99/09847	Non-provisional of	60/085,920	05/18/98
PCT/US99/09847	Non-provisional of	60/085,924	05/18/98
PCT/US99/09847	Non-provisional of	60/085,922	05/18/98
PCT/US99/09847	Non-provisional of	60/085,923	05/18/98
PCT/US99/09847	Non-provisional of	60/085,921	05/18/98
PCT/US99/09847	Non-provisional of	60/085,925	05/18/98
PCT/US99/09847	Non-provisional of	60/085,928	05/18/98
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>10/050,873</u>	01/18/02
<u>10/050,873</u>	<u>Non-provisional of</u>	<u>60/263,681</u>	01/24/01
<u>10/050,873</u>	<u>Non-provisional of</u>	<u>60/263,230</u>	01/23/01
<u>10/050,873</u>	<u>Continuation-in-part of</u>	<u>09/461,325</u>	12/14/99
<u>09/461,325</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/13418</u>	06/15/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>10/012,542</u>	12/12/01
<u>10/012,542</u>	<u>Divisional of</u>	<u>09/461,325</u>	12/14/99
<u>09/461,325</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/13418</u>	06/15/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/461,325</u>	12/14/99
<u>09/461,325</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/13418</u>	06/15/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/13418</u>	06/15/99
PCT/US99/13418	Non-provisional of	60/089,507	06/16/98
PCT/US99/13418	Non-provisional of	60/089,508	06/16/98
PCT/US99/13418	Non-provisional of	60/089,509	06/16/98
PCT/US99/13418	Non-provisional of	60/089,510	06/16/98
PCT/US99/13418	Non-provisional of	60/090,112	06/22/98
PCT/US99/13418	Non-provisional of	60/090,113	06/22/98
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/984,271</u>	10/29/01
<u>09/984,271</u>	<u>Divisional of</u>	<u>09/482,273</u>	01/13/00
<u>09/482,273</u>	<u>Continuation-in-part of</u>	<u>PCT/US99/15849</u>	07/14/99
<u>10/100,683</u>	<u>Continuation-in-part of</u>	<u>09/984,276</u>	10/29/01

09/984,276	Divisional of	09/482,273	01/13/00
09/482,273	Continuation-in-part of	PCT/US99/15849	07/14/99
10/100,683	Continuation-in-part of	09/482,273	01/13/00
09/482,273	Continuation-in-part of	PCT/US99/15849	07/14/99
10/100,683	Continuation-in-part of	PCT/US99/15849	07/14/99
PCT/US99/15849	Non-provisional of	60/092,921	07/15/98
PCT/US99/15849	Non-provisional of	60/092,922	07/15/98
PCT/US99/15849	Non-provisional of	60/092,956	07/15/98
10/100,683	Continuation-in-part of	PCT/US01/29871	09/24/01
PCT/US01/29871	Non-provisional of	60/234,925	09/25/00
PCT/US01/29871	Continuation-in-part of	PCT/US01/00911	01/12/01
10/100,683	Continuation-in-part of	PCT/US01/00911	01/12/01
PCT/US01/00911	Continuation-in-part of	09/482,273	01/13/00
10/100,683	Non-provisional of	60/350,898	01/25/02
10/100,683	Continuation-in-part of	09/489,847	01/24/00
09/489,847	Continuation-in-part of	PCT/US99/17130	07/29/99
10/100,683	Continuation-in-part of	PCT/US99/17130	07/29/99
PCT/US99/17130	Non-provisional of	60/094,657	07/30/98
PCT/US99/17130	Non-provisional of	60/095,486	08/05/98
PCT/US99/17130	Non-provisional of	60/096,319	08/12/98
PCT/US99/17130	Non-provisional of	60/095,454	08/06/98
PCT/US99/17130	Non-provisional of	60/095,455	08/06/98
10/100,683	Continuation-in-part of	10/054,988	01/25/02
10/054,988	Continuation of	09/904,615	07/16/01
09/904,615	Continuation of	09/739,254	12/19/00
09/739,254	Continuation of	09/511,554	02/23/00
09/511,554	Continuation-in-part of	PCT/US99/19330	08/24/99
10/100,683	Continuation-in-part of	09/904,615	07/16/01
09/904,615	Continuation of	09/739,254	12/19/00
09/739,254	Continuation of	09/511,554	02/23/00
09/511,554	Continuation-in-part of	PCT/US99/19330	08/24/99
10/100,683	Continuation-in-part of	PCT/US99/19330	08/24/99
PCT/US99/19330	Non-provisional of	60/097,917	08/25/98
PCT/US99/19330	Non-provisional of	60/098,634	08/31/98
10/100,683	Continuation-in-part of	09/820,893	03/30/01
09/820,893	Continuation of	09/531,119	03/20/00
09/531,119	Continuation-in-part of	PCT/US99/22012	09/22/99
10/100,683	Continuation-in-part of	PCT/US99/22012	09/22/99
PCT/US99/22012	Non-provisional of	60/101,546	09/23/98
PCT/US99/22012	Non-provisional of	60/102,895	10/02/98
10/100,683	Continuation-in-part of	09/948,820	09/10/01
09/948,820	Continuation of	09/565,391	05/05/00
09/565,391	Continuation-in-part of	PCT/US99/26409	11/09/99
10/100,683	Continuation-in-part of	09/565,391	05/05/00
09/565,391	Continuation-in-part of	PCT/US99/26409	11/09/99
10/100,683	Continuation-in-part of	PCT/US99/26409	11/09/99
PCT/US99/26409	Non-provisional of	60/108,207	11/12/98

10/100,683	Continuation-in-part of	09/895,298	07/02/01
09/895,298	Continuation of	09/591,316	06/09/00
09/591,316	Continuation-in-part of	PCT/US99/29950	12/16/99
10/100,683	Continuation-in-part of	PCT/US99/29950	12/16/99
PCT/US99/29950	Non-provisional of	60/113,006	12/18/98
PCT/US99/29950	Non-provisional of	60/112,809	12/17/98
10/100,683	Continuation-in-part of	09/985,153	11/01/01
09/985,153	Continuation of	09/618,150	07/17/00
09/618,150	Continuation-in-part of	PCT/US00/00903	01/18/00
10/100,683	Continuation-in-part of	PCT/US00/00903	01/18/00
PCT/US00/00903	Non-provisional of	60/116,330	01/19/99
10/100,683	Continuation-in-part of	09/997,131	11/30/01
09/997,131	Continuation of	09/628,508	07/28/00
09/628,508	Continuation-in-part of	PCT/US00/03062	02/08/00
10/100,683	Continuation-in-part of	PCT/US00/03062	02/08/00
PCT/US00/03062	Non-provisional of	60/119,468	02/10/99
10/100,683	Continuation-in-part of	10/050,882	01/18/02
10/050,882	Continuation of	09/661,453	09/13/00
09/661,453	Continuation-in-part of	PCT/US00/06783	03/16/00
10/100,683	Continuation-in-part of	09/661,453	09/13/00
09/661,453	Continuation-in-part of	PCT/US00/06783	03/16/00
10/100,683	Continuation-in-part of	PCT/US00/06783	03/16/00
PCT/US00/06783	Non-provisional of	60/125,055	03/18/99
10/100,683	Continuation-in-part of	10/050,704	01/18/02
10/050,704	Continuation of	09/684,524	10/10/00
09/684,524	Continuation-in-part of	PCT/US00/08979	04/06/00
10/100,683	Continuation-in-part of	09/684,524	10/10/00
09/684,524	Continuation-in-part of	PCT/US00/08979	04/06/00
10/100,683	Continuation-in-part of	PCT/US00/08979	04/06/00
PCT/US00/08979	Non-provisional of	60/128,693	04/09/99
PCT/US00/08979	Non-provisional of	60/130,991	04/26/99
10/100,683	Continuation-in-part of	10/042,141	01/11/02
10/042,141	Continuation of	09/726,643	12/01/00
09/726,643	Continuation-in-part of	PCT/US00/15187	06/02/00
10/100,683	Continuation-in-part of	09/726,643	12/01/00
09/726,643	Continuation-in-part of	PCT/US00/15187	06/02/00
10/100,683	Continuation-in-part of	PCT/US00/15187	06/02/00
PCT/US00/15187	Non-provisional of	60/137,725	06/07/99
10/100,683	Continuation-in-part of	09/756,168	01/09/01
09/756,168	Continuation-in-part of	PCT/US00/19735	07/23/99
10/100,683	Continuation-in-part of	PCT/US00/19735	07/20/00
PCT/US00/19735	Non-provisional of	60/145,220	07/23/99
10/100,683	Continuation-in-part of	PZ042P1C1	02/01/02
PZ042P1C1	Continuation of	09/781,417	02/13/01
09/781,417	Continuation-in-part of	PCT/US00/22325	08/16/00
10/100,683	Continuation-in-part of	09/781,417	02/13/01

09/781,417	Continuation-in-part of	PCT/US00/22325	08/16/00
10/100,683	Continuation-in-part of	PCT/US00/22325	08/16/00
PCT/US00/22325	Non-provisional of	60/149,182	08/17/99
10/100,683	Continuation-in-part of	09/789,561	02/22/01
09/789,561	Continuation-in-part of	PCT/US00/24008	08/31/00
10/100,683	Continuation-in-part of	PCT/US00/24008	08/31/00
PCT/US00/24008	Non-provisional of	60/152,315	09/03/99
PCT/US00/24008	Non-provisional of	60/152,317	09/03/99
10/100,683	Continuation-in-part of	09/800,729	03/08/01
09/800,729	Continuation-in-part of	PCT/US00/26013	09/22/00
10/100,683	Continuation-in-part of	PCT/US00/26013	09/22/00
PCT/US00/26013	Non-provisional of	60/155,709	09/24/99
10/100,683	Continuation-in-part of	09/832,129	04/11/01
09/832,129	Continuation-in-part of	PCT/US00/28664	10/17/00
10/100,683	Continuation-in-part of	PCT/US00/28664	10/17/00
PCT/US00/28664	Non-provisional of	60/163,085	11/02/99
PCT/US00/28664	Non-provisional of	60/172,411	12/17/99
10/100,683	Continuation-in-part of	PCT/US00/29363	10/25/00
PCT/US00/29363	Non-provisional of	60/215,139	06/30/00
PCT/US00/29363	Non-provisional of	60/162,239	10/29/99
10/100,683	Continuation-in-part of	PCT/US00/29360	10/25/00
PCT/US00/29360	Non-provisional of	60/215,138	06/30/00
PCT/US00/29360	Non-provisional of	60/162,211	10/29/99
10/100,683	Continuation-in-part of	PCT/US00/29362	10/25/00
PCT/US00/29362	Non-provisional of	60/215,131	06/30/00
PCT/US00/29362	Non-provisional of	60/162,240	10/29/99
10/100,683	Continuation-in-part of	PCT/US00/29365	10/25/00
PCT/US00/29365	Non-provisional of	60/219,666	07/21/00
PCT/US00/29365	Non-provisional of	60/162,237	10/29/99
10/100,683	Continuation-in-part of	PCT/US00/29364	10/25/00
PCT/US00/29364	Non-provisional of	60/215,134	06/30/00
PCT/US00/29364	Non-provisional of	60/162,238	10/29/99
10/100,683	Continuation-in-part of	PCT/US00/30040	11/01/00
PCT/US00/30040	Non-provisional of	60/215,130	06/30/00
PCT/US00/30040	Non-provisional of	60/163,580	11/05/99
10/100,683	Continuation-in-part of	PCT/US00/30037	11/01/00
PCT/US00/30037	Non-provisional of	60/215,137	06/30/00
PCT/US00/30037	Non-provisional of	60/163,577	11/05/99
10/100,683	Continuation-in-part of	PCT/US00/30045	11/01/00
PCT/US00/30045	Non-provisional of	60/215,133	06/30/00
PCT/US00/30045	Non-provisional of	60/163,581	11/05/99
10/100,683	Continuation-in-part of	PCT/US00/30036	11/01/00
PCT/US00/30036	Non-provisional of	60/221,366	07/27/00
PCT/US00/30036	Non-provisional of	60/163,576	11/05/99
10/100,683	Continuation-in-part of	PCT/US00/30039	11/01/00
PCT/US00/30039	Non-provisional of	60/221,367	07/27/00
PCT/US00/30039	Non-provisional of	60/195,296	04/07/00
PCT/US00/30039	Non-provisional of	60/164,344	11/09/99

10/100,683	Continuation-in-part of	PCT/US00/30654	11/08/00
PCT/US00/30654	Non-provisional of	60/221,142	07/27/00
PCT/US00/30654	Non-provisional of	60/164,835	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/30628	11/08/00
PCT/US00/30628	Non-provisional of	60/215,140	06/30/00
PCT/US00/30628	Non-provisional of	60/164,744	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/30653	11/08/00
PCT/US00/30653	Non-provisional of	60/221,193	07/27/00
PCT/US00/30653	Non-provisional of	60/164,735	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/30629	11/08/00
PCT/US00/30629	Non-provisional of	60/222,904	08/03/00
PCT/US00/30629	Non-provisional of	60/164,825	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/30679	11/08/00
PCT/US00/30679	Non-provisional of	60/224,007	08/04/00
PCT/US00/30679	Non-provisional of	60/164,834	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/30674	11/08/00
PCT/US00/30674	Non-provisional of	60/215,128	06/30/00
PCT/US00/30674	Non-provisional of	60/164,750	11/12/99
10/100,683	Continuation-in-part of	PCT/US00/31162	11/15/00
60/215,136	Non-provisional of	60/215,136	06/30/00
60/215,136	Non-provisional of	60/166,415	11/19/99
10/100,683	Continuation-in-part of	PCT/US00/31282	11/15/00
PCT/US00/31282	Non-provisional of	60/219,665	07/21/00
PCT/US00/31282	Non-provisional of	60/166,414	11/19/99
10/100,683	Continuation-in-part of	PCT/US00/30657	11/08/00
PCT/US00/30657	Non-provisional of	60/215,132	06/30/00
PCT/US00/30657	Non-provisional of	60/164,731	11/12/99
10/100,683	Continuation-in-part of	PCT/US01/01396	01/17/01
60/256,968	Non-provisional of	60/256,968	12/21/00
60/256,968	Non-provisional of	60/226,280	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01387	01/17/01
60/259,803	Non-provisional of	60/259,803	01/05/01
60/259,803	Non-provisional of	60/226,380	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01567	01/17/01
PCT/US01/01567	Non-provisional of	60/228,084	08/28/00
10/100,683	Continuation-in-part of	PCT/US01/01431	01/17/01
PCT/US01/01431	Non-provisional of	60/231,968	09/12/00
PCT/US01/01431	Continuation-in-part of	09/915,582	07/27/01
10/100,683	Continuation-in-part of	PCT/US01/01432	01/17/01
PCT/US01/01432	Non-provisional of	60/236,326	09/29/00
10/100,683	Continuation-in-part of	PCT/US01/00544	01/09/01
PCT/US01/00544	Non-provisional of	60/234,211	09/20/00
10/100,683	Continuation-in-part of	PCT/US01/01435	01/17/01
PCT/US01/01435	Non-provisional of	60/226,282	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01386	01/17/01
PCT/US01/01386	Non-provisional of	60/232,104	09/12/00
10/100,683	Continuation-in-part of	PCT/US01/01565	01/17/01
PCT/US01/01565	Non-provisional of	60/234,210	09/20/00

10/100,683	Continuation-in-part of	PCT/US01/01394	01/17/01
PCT/US01/01394	Non-provisional of	60/259,805	01/05/01
PCT/US01/01394	Non-provisional of	60/226,278	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01434	01/17/01
PCT/US01/01434	Non-provisional of	60/259,678	01/05/01
PCT/US01/01434	Non-provisional of	60/226,279	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01397	01/17/01
PCT/US01/01397	Non-provisional of	60/226,281	08/18/00
10/100,683	Continuation-in-part of	PCT/US01/01385	01/17/01
PCT/US01/01385	Non-provisional of	60/231,969	09/12/00
10/100,683	Continuation-in-part of	PCT/US01/01384	01/17/01
PCT/US01/01384	Non-provisional of	60/259,516	01/04/01
PCT/US01/01384	Non-provisional of	60/228,086	08/28/00
10/100,683	Continuation-in-part of	PCT/US01/01383	01/17/01
PCT/US01/01383	Non-provisional of	60/259,804	01/05/01
PCT/US01/01383	Non-provisional of	60/228,083	08/28/00
10/100,683	Continuation-in-part of	PCT/US02/05064	02/21/02
PCT/US02/05064	Non-provisional of	60/304,444	07/12/01
PCT/US02/05064	Non-provisional of	60/270,658	02/23/01
10/100,683	Continuation-in-part of	PCT/US02/05301	02/21/02
PCT/US02/05301	Non-provisional of	60/304,417	07/12/01
PCT/US02/05301	Non-provisional of	60/270,625	02/23/01
10/100,683	Non-provisional of	60/304,121	07/11/01
10/100,683	Non-provisional of	60/295,869	06/06/01
10/100,683	Non-provisional of	60/325,209	09/28/01
10/100,683	Non-provisional of	60/311,085	08/10/01
10/100,683	Non-provisional of	60/330,629	10/26/01
10/100,683	Non-provisional of	60/331,046	11/07/01
10/100,683	Non-provisional of	60/358,554	02/22/02
10/100,683	Non-provisional of	60/358,714	02/25/02

; wherein each of the above applications are all herein incorporated by reference in their entirety.

5

Field of the Invention

The present invention relates to human secreted proteins/polypeptides, and isolated nucleic acid molecules encoding said proteins/polypeptides, useful for detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating cancer and other hyperproliferative disorders. Antibodies that bind these polypeptides are also encompassed by the present invention. Also encompassed by the invention are vectors, host cells, and recombinant and synthetic methods for producing said polynucleotides, polypeptides, and/or antibodies. The invention further encompasses screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further encompasses methods and

compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

Background of the Invention

5 Cancer and other hyperproliferative disorders are a diverse group of disorders and diseases sharing one characteristic in common; all result from uncontrolled cell proliferation. The human body is composed of many different cell types, e.g. liver cells, muscle cells, brain cells, etc. Normally, these cells grow and divide to produce more cells only as the body needs them (e.g. to regenerate blood cells or replace epithelial cells lining the stomach). Sometimes, however, cells
10 begin to divide unchecked even though new cells are not needed. These extra cells accumulate and form a mass of tissue, called a tumor. Although each of the over 200 cell types in the body can potentially become cancerous, some cell types become cancerous at relatively high rates while many other cell types rarely become cancerous.

Tumors are either benign or malignant. Benign tumors are not cancerous; they can usually
15 be removed, they do not spread to other parts of the body and, they rarely threaten life. Malignant tumors, however, are cancerous. Cells in malignant tumors can invade and damage nearby or distant tissues and organs. The spread of cancerous cells is called metastasis. Malignant (or metastatic) cells can invade adjacent organs by proliferating directly from the primary tumor. Additionally, malignant cells can also metastasize to distant organs by breaking away from the
20 primary tumor, entering the bloodstream or lymphatic system, and settling down in a new organ or tissue to produce a secondary tumor. The origin of secondary tumors is established by comparing cells comprising these tumors to cells in the original (primary) tumor.

In contrast to solid organ cancers (such as cancer in the liver, lung, and brain) cancer can also develop in blood-forming cells. These cancers are referred to as leukemias or lymphomas.
25 Leukemia refers to cancer of blood forming cells such as red blood cells, platelets, and plasma cells. Lymphomas are a subset of leukemias, primarily involving white blood cells, in which the cancerous cells originated in, or are associated with, the lymph system and lymph organs (e.g. T-lymphocytes in the lymph nodes, spleen, or thymus).

In 1999 over 1.1 million people were newly diagnosed with 23 different types of cancer.
30 The vast majority of these cases (~75%) involved cancers of the prostate, breast, lung, colon, or urinary tract, or non-Hodgkin's lymphoma. Among the most fatal cancers are pancreatic, liver, esophageal, lung, stomach, and brain cancers, having up to 96% mortality rates depending on the specific cancer. In all, some 23 different types of cancer are expected to kill over 86,000 people each year.

35 Most cancers are treated with one or a combination therapies consisting of surgery, radiation therapy, chemotherapy, hormone therapy, and/or biological therapy. These five therapeutic modes are either local or systemic treatment strategies. Local treatments affect cancer

cells in the tumor and immediately adjacent areas (for example, surgical tumor removal is a local treatment as are most radiation treatments). In contrast, systemic treatments travel through the bloodstream, and reach cancer and other cells all over the body. Chemotherapy, hormone therapy, and biological therapy are examples of systemic treatments.

5 Whether systemic or local, it is often difficult or impossible to protect healthy cells from the harmful effects of cancer treatment; healthy cells and tissues are inevitably damaged in the process of treating the cancerous cells. Damage and disruption of the normal functioning of healthy cells and tissues often produces the undesirable side effects experienced by patients undergoing cancer treatment.

10 Recombinant polypeptides and polynucleotides derived from naturally occurring molecules, as well as antibodies specifically targeted to these molecules, used alone or in conjunction with other existing therapies, hold great promise as improved therapeutic agents for the treatment of neoplastic disorders. Currently, most biological therapy can be classified as immunotherapy because these treatments often use naturally occurring molecules to assist the
15 body's immune system in fighting the disease or in protecting the body from side effects of other cancer treatment(s). Among the most commonly used compounds in biological therapies are proteins called cytokines (e.g. interferons, interleukins, and colony stimulating factors) and monoclonal antibodies (targeted to particular cancer cells). Side effects caused by these commonly used biological therapies range from flu-like symptoms (chills, fever, muscle aches, weakness, loss
20 of appetite, nausea, vomiting, and diarrhea) to rashes, swelling, easy bruising, or bleeding.

 The discovery of human secreted proteins associated with initiation, progression, characterization, and/or distinction of neoplastic diseases (including antibodies that immunospecifically bind these polypeptides), satisfies a need in the art by providing new compositions useful in the detection, prevention, diagnosis, treatment, prevention,
25 prognosis, and treatment of hyperproliferative disorders.

Summary of the Invention

 The present invention encompasses human secreted proteins/polypeptides, and isolated nucleic acid molecules encoding said proteins/polypeptides, useful for detecting, preventing,
30 diagnosing, prognosticating, treating, and/or ameliorating cancer and other hyperproliferative disorders. Antibodies that bind these polypeptides are also encompassed by the present invention; as are vectors, host cells, and recombinant and synthetic methods for producing said polynucleotides, polypeptides, and/or antibodies. The invention further encompasses screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the
35 invention. The present invention also encompasses methods and compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

Detailed Description

5 **Polynucleotides and Polypeptides of the Invention**

Description of Table 1A

Table 1A summarizes information concerning certain polynucleotides and polypeptides of the invention. The first column provides the gene number in the application for each clone identifier. The second column provides a unique clone identifier, "Clone ID:," for a cDNA clone related to each contig sequence disclosed in Table 1A. Third column, the cDNA Clones identified in the second column were deposited as indicated in the third column (i.e. by ATCC Deposit No:Z and deposit date). Some of the deposits contain multiple different clones corresponding to the same gene. In the fourth column, "Vector" refers to the type of vector contained in the corresponding cDNA Clone identified in the second column. In the fifth column, the nucleotide sequence identified as "NT SEQ ID NO:X" was assembled from partially homologous ("overlapping") sequences obtained from the corresponding cDNA clone identified in the second column and, in some cases, from additional related cDNA clones. The overlapping sequences were assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a final sequence identified as SEQ ID NO:X. In the sixth column, "Total NT Seq." refers to the total number of nucleotides in the contig sequence identified as SEQ ID NO:X." The deposited clone may contain all or most of these sequences, reflected by the nucleotide position indicated as "5' NT of Clone Seq." (seventh column) and the "3' NT of Clone Seq." (eighth column) of SEQ ID NO:X. In the ninth column, the nucleotide position of SEQ ID NO:X of the putative start codon (methionine) is identified as "5' NT of Start Codon." Similarly, in column ten, the nucleotide position of SEQ ID NO:X of the predicted signal sequence is identified as "5' NT of First AA of Signal Pep." In the eleventh column, the translated amino acid sequence, beginning with the methionine, is identified as "AA SEQ ID NO:Y," although other reading frames can also be routinely translated using known molecular biology techniques. The polypeptides produced by these alternative open reading frames are specifically contemplated by the present invention.

In the twelfth and thirteenth columns of Table 1A, the first and last amino acid position of SEQ ID NO:Y of the predicted signal peptide is identified as "First AA of Sig Pep" and "Last AA of Sig Pep." In the fourteenth column, the predicted first amino acid position of SEQ ID NO:Y of the secreted portion is identified as "Predicted First AA of Secreted Portion". The amino acid position of SEQ ID NO:Y of the last amino acid encoded by the open reading frame is identified in the fifteenth column as "Last AA of ORF".

SEQ ID NO:X (where X may be any of the polynucleotide sequences disclosed in the sequence listing) and the translated SEQ ID NO:Y (where Y may be any of the polypeptide sequences disclosed in the sequence listing) are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, SEQ ID NO:X is useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in the deposited clone. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used, for example, to generate antibodies which bind specifically to proteins containing the polypeptides and the secreted proteins encoded by the cDNA clones identified in Table 1A and/or elsewhere herein

Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and the predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing a human cDNA of the invention deposited with the ATCC, as set forth in Table 1A. The nucleotide sequence of each deposited plasmid can readily be determined by sequencing the deposited plasmid in accordance with known methods

The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular plasmid can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

Also provided in Table 1A is the name of the vector which contains the cDNA plasmid. Each vector is routinely used in the art. The following additional information is provided for convenience.

Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc.,

11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene

5 Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59 (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance
10 gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

15 The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or a deposited cDNA (cDNA Clone ID). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include, but are not limited to, preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

20 Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X and SEQ ID NO:Y using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or
25 species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

 The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X and/or a cDNA contained in ATCC Deposit No.Z.
30 The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by a cDNA contained in ATCC deposit No.Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X and/or a polypeptide encoded by the cDNA contained in
35 ATCC Deposit No.Z, are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of the complement of the

nucleic acid sequence of SEQ ID NO:X, and/or the complement of the coding strand of the cDNA contained in ATCC Deposit No.Z.

Description of Table 1B (Comprised of Tables 1B.1 and 1B.2)

5 Table 1B.1 and Table 1B.2 summarize some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID:), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifiers (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column of Tables 1B.1 and 1B.2 provide the gene numbers in the application for
10 each clone identifier. The second column of Tables 1B.1 and 1B.2 provide unique clone identifiers, "Clone ID:", for cDNA clones related to each contig sequence disclosed in Table 1A and/or Table 1B. The third column of Tables 1B.1 and 1B.2 provide unique contig identifiers, "Contig ID:" for each of the contig sequences disclosed in these tables. The fourth column of Tables 1B.1 and 1B.2 provide the sequence identifiers, "SEQ ID NO:X", for each of the contig
15 sequences disclosed in Table 1A and/or 1B.

Table 1B.1

 The fifth column of Table 1B.1, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineates the preferred open reading frame (ORF) that encodes the amino acid sequence shown in the
20 sequence listing and referenced in Table 1B.1 as SEQ ID NO:Y (column 6). Column 7 of Table 1B.1 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4; 181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in
25 the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1B.1 as "Predicted Epitopes". In particular embodiments, polypeptides of the invention comprise, or alternatively consist of, one, two, three,
30 four, five or more of the predicted epitopes described in Table 1B.1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 8 of Table 1B.1 ("Tissue Distribution") is described below in Table 1B.2 Column 5. Column 9 of Table 1B.1 ("Cytologic Band") provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location
35 was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive

chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). If the putative chromosomal location of the Query overlaps with the chromosomal location of a Morbid Map entry, an OMIM identification number is disclosed in Table 1B.1, column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

Table 1B.2

Column 5 of Table 1B.2, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first code number shown in Table 1B.2 column 5 (preceding the colon), represents the tissue/cell source identifier code corresponding to the key provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. The second number in column 5 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the corresponding tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

Description of Table 1C

Table 1C summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID:), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID:", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

Description of Table 1D

Table 1D: In preferred embodiments, the present invention encompasses a method of detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating cancer and other hyperproliferative disorders; comprising administering to a patient in which such treatment, prevention, or amelioration is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) represented by Table 1A, Table 1B, and Table 1C, in an amount effective to detect, prevent, diagnose, prognosticate, treat, and/or ameliorate the disease or disorder.

As indicated in Table 1D, the polynucleotides, polypeptides, agonists, or antagonists of the present invention (including antibodies) can be used in assays to test for one or more biological activities. If these polynucleotides and polypeptides do exhibit activity in a particular assay, it is likely that these molecules may be involved in the diseases associated with the biological activity. Thus, the polynucleotides or polypeptides, or agonists or antagonists thereof (including antibodies) could be used to treat the associated disease.

Table 1D provides information related to biological activities for polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof). Table 1D also provides information related to assays which may be used to test polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof) for the corresponding biological activities. The first column ("Gene No.") provides the gene number in the application for each clone identifier. The second column ("cDNA Clone ID:") provides the

unique clone identifier for each clone as previously described and indicated in Tables 1A, 1B, and 1C. The third column ("AA SEQ ID NO:Y") indicates the Sequence Listing SEQ ID Number for polypeptide sequences encoded by the corresponding cDNA clones (also as indicated in Tables 1A, 1B, and 2). The fourth column ("Biological Activity") indicates a biological activity corresponding to the indicated polypeptides (or polynucleotides encoding said polypeptides). The fifth column ("Exemplary Activity Assay") further describes the corresponding biological activity and provides information pertaining to the various types of assays which may be performed to test, demonstrate, or quantify the corresponding biological activity. Table 1D describes the use of FMAT technology, *inter alia*, for testing or demonstrating various biological activities.

Fluorometric microvolume assay technology (FMAT) is a fluorescence-based system which provides a means to perform nonradioactive cell- and bead-based assays to detect activation of cell signal transduction pathways. This technology was designed specifically for ligand binding and immunological assays. Using this technology, fluorescent cells or beads at the bottom of the well are detected as localized areas of concentrated fluorescence using a data processing system. Unbound fluorophore comprising the background signal is ignored, allowing for a wide variety of homogeneous assays. FMAT technology may be used for peptide ligand binding assays, immunofluorescence, apoptosis, cytotoxicity, and bead-based immunocapture assays. *See*, Miraglia S et. al., "Homogeneous cell and bead based assays for highthroughput screening using fluorometric microvolume assay technology," *Journal of Biomolecular Screening*; 4:193-204 (1999). In particular, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides (including polypeptide fragments and variants) to activate signal transduction pathways. For example, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides to upregulate production of immunomodulatory proteins (such as, for example, interleukins, GM-CSF, Rantes, and Tumor Necrosis factors, as well as other cellular regulators (e.g. insulin)).

Table 1D also describes the use of kinase assays for testing, demonstrating, or quantifying biological activity. In this regard, the phosphorylation and de-phosphorylation of specific amino acid residues (e.g. Tyrosine, Serine, Threonine) on cell-signal transduction proteins provides a fast, reversible means for activation and de-activation of cellular signal transduction pathways. Moreover, cell signal transduction via phosphorylation/de-phosphorylation is crucial to the regulation of a wide variety of cellular processes (e.g. proliferation, differentiation, migration, apoptosis, etc.). Accordingly, kinase assays provide a powerful tool useful for testing, confirming, and/or identifying polypeptides (including polypeptide fragments and variants) that mediate cell signal transduction events via protein phosphorylation. *See e.g.*, Forrer, P., Tamaskovic R., and Jaussi, R. "Enzyme-Linked Immunosorbent Assay for Measurement of JNK, ERK, and p38 Kinase Activities" *Biol. Chem.* 379(8-9): 1101-1110 (1998).

Description of Table 1E

Polynucleotides encoding polypeptides of the present invention can be used in assays to test for one or more biological activities. One such biological activity which may be tested includes the ability of polynucleotides and polypeptides of the invention to stimulate up-regulation or down-regulation of expression of particular genes and proteins. Hence, if polynucleotides and polypeptides of the present invention exhibit activity in altering particular gene and protein expression patterns, it is likely that these polynucleotides and polypeptides of the present invention may be involved in, or capable of effecting changes in, diseases associated with the altered gene and protein expression profiles. Hence, polynucleotides, polypeptides, or antibodies of the present invention could be used to treat said associated diseases.

TaqMan® assays may be performed to assess the ability of polynucleotides (and polypeptides they encode) to alter the expression pattern of particular "target" genes. TaqMan® reactions are performed to evaluate the ability of a test agent to induce or repress expression of specific genes in different cell types. TaqMan® gene expression quantification assays ("TaqMan® assays") are well known to, and routinely performed by, those of ordinary skill in the art. TaqMan® assays are performed in a two step reverse transcription / polymerase chain reaction (RT-PCR). In the first (RT) step, cDNA is reverse transcribed from total RNA samples using random hexamer primers. In the second (PCR) step, PCR products are synthesized from the cDNA using gene specific primers.

To quantify gene expression the Taqman® PCR reaction exploits the 5' nuclease activity of AmpliTaq Gold® DNA Polymerase to cleave a Taqman® probe (distinct from the primers) during PCR. The Taqman® probe contains a reporter dye at the 5'-end of the probe and a quencher dye at the 3' end of the probe. When the probe is intact, the proximity of the reporter dye to the quencher dye results in suppression of the reporter fluorescence. During PCR, if the target of interest is present, the probe specifically anneals between the forward and reverse primer sites. AmpliTaq Fold DNA Polymerase then cleaves the probe between the reporter and quencher when the probe hybridizes to the target, resulting in increased fluorescence of the reporter (see Figure 2). Accumulation of PCR products is detected directly by monitoring the increase in fluorescence of the reporter dye.

After the probe fragments are displaced from the target, polymerization of the strand continues. The 3'-end of the probe is blocked to prevent extension of the probe during PCR. This process occurs in every cycle and does not interfere with the exponential accumulation of product. The increase in fluorescence signal is detected only if the target sequence is complementary to the probe and is amplified during PCR. Because of these requirements, any nonspecific amplification is not detected.

For test sample preparation, vector controls or constructs containing the coding sequence for the gene of interest are transfected into cells, such as for example 293T cells, and supernatants collected after 48 hours. For cell treatment and RNA isolation, multiple primary human cells or human cell lines are used; such cells may include but are not limited to, Normal Human Dermal Fibroblasts, Aortic Smooth Muscle, Human Umbilical Vein Endothelial Cells, HepG2, Daudi, Jurkat, U937, Caco, and THP-1 cell lines. Cells are plated in growth media and growth is arrested by culturing without media change for 3 days, or by switching cells to low serum media and incubating overnight. Cells are treated for 1, 6, or 24 hours with either vector control supernatant or sample supernatant (or purified/partially purified protein preparations in buffer). Total RNA is isolated; for example, by using Trizol extraction or by using the Ambion RNAqueous(TM)-4PCR RNA isolation system. Expression levels of multiple genes are analyzed using TAQMAN, and expression in the test sample is compared to control vector samples to identify genes induced or repressed. Each of the above described techniques are well known to, and routinely performed by, those of ordinary skill in the art.

Table 1E indicates particular disease classes and preferred indications for which polynucleotides, polypeptides, or antibodies of the present invention may be used in detecting, diagnosing, preventing, treating and/or ameliorating said diseases and disorders based on "target" gene expression patterns which may be up- or down-regulated by polynucleotides (and the encoded polypeptides) corresponding to each indicated cDNA Clone ID (shown in Table 1E, Column 2).

Thus, in preferred embodiments, the present invention encompasses a method of detecting, diagnosing, preventing, treating, and/or ameliorating a disease or disorder listed in the "Disease Class" and/or "Preferred Indication" columns of Table 1E; comprising administering to a patient in which such detection, diagnosis, prevention, or treatment is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) in an amount effective to detect, diagnose, prevent, treat, or ameliorate the disease or disorder. The first and second columns of Table 1D show the "Gene No." and "cDNA Clone ID No.", respectively, indicating certain nucleic acids and proteins (or antibodies against the same) of the invention (including polynucleotide, polypeptide, and antibody fragments or variants thereof) that may be used in detecting, diagnosing, preventing, treating, or ameliorating the disease(s) or disorder(s) indicated in column 6 and as indicated in the corresponding row in the "Disease Class" or "Preferred Indication" Columns of Table 1E.

In another embodiment, the present invention also encompasses methods of detecting, diagnosing, preventing, treating, or ameliorating a disease or disorder listed in the "Disease Class" or "Preferred Indication" Columns of Table 1E; comprising administering to a patient combinations of the proteins, nucleic acids, or antibodies of the invention (or fragments or variants

thereof), sharing similar indications as shown in the corresponding rows in the "Disease Class" or "Preferred Indication" Columns of Table 1E.

5 The "Disease Class" Column of Table 1E provides a categorized descriptive heading for diseases, disorders, and/or conditions (more fully described below) that may be detected, diagnosed, prevented, treated, or ameliorated by a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof).

The "Preferred Indication" Column of Table 1E describes diseases, disorders, and/or conditions that may be detected, diagnosed, prevented, treated, or ameliorated by a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof).

10 The "Cell Line" and "Exemplary Targets" Columns of Table 1E indicate particular cell lines and target genes, respectively, which may show altered gene expression patterns (i.e., up- or down-regulation of the indicated target gene) in Taqman assays, performed as described above, utilizing polynucleotides of the cDNA Clone ID shown in the corresponding row. Alteration of expression patterns of the indicated "Exemplary Target" genes is correlated with a particular
15 "Disease Class" and/or "Preferred Indication" as shown in the corresponding row under the respective column headings.

The "Exemplary Accessions" Column indicates GenBank Accessions (available online through the National Center for Biotechnology Information (NCBI) at <http://www.ncbi.nlm.nih.gov/>) which correspond to the "Exemplary Targets" shown in the
20 adjacent row.

The recitation of "Cancer" in the "Disease Class" Column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof) may be used for example, to detect, diagnose, prevent, treat, and/or ameliorate neoplastic diseases and/or disorders (e.g., leukemias, cancers, etc., as described below under
25 "Hyperproliferative Disorders").

The recitation of "Immune" in the "Disease Class" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to detect, diagnose, prevent, treat, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under
30 "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity" "Cardiovascular Disorders" and/or "Blood-Related Disorders"), and infections (e.g., as described below under "Infectious Disease").

The recitation of "Angiogenesis" in the "Disease Class" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to detect, diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under
35 "Hyperproliferative Disorders"), diseases and/or disorders of the cardiovascular system (e.g., as

described below under "Cardiovascular Disorders"), diseases and/or disorders involving cellular and genetic abnormalities (e.g., as described below under "Diseases at the Cellular Level"), diseases and/or disorders involving angiogenesis (e.g., as described below under "Anti-Angiogenesis Activity"), to promote or inhibit cell or tissue regeneration (e.g., as described below under "Regeneration"), or to promote wound healing (e.g., as described below under "Wound Healing and Epithelial Cell Proliferation").

The recitation of "Diabetes" in the "Disease Class" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to detect, diagnose, treat, prevent, and/or ameliorate diabetes (including diabetes mellitus types I and II), as well as diseases and/or disorders associated with, or consequential to, diabetes (e.g. as described below under "Endocrine Disorders," "Renal Disorders," and "Gastrointestinal Disorders").

Description of Table 2

Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID:", corresponding to a cDNA clone disclosed in Table 1A or Table 1B. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1B and allowing for correlation with the information in Table 1B. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequence. The fourth column provides the analysis method by which the homology/identity disclosed in the Table was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of the PFAM/NR hit having a significant match to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in columns five and six. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth and sixth columns. In specific embodiments polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by a polynucleotide in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

Description of Table 3

Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID",

for a cDNA clone related to contig sequences disclosed in Table 1B. The second column provides the sequence identifier, "SEQ ID NO:X", for contig sequences disclosed in Table 1A and/or Table 1B. The third column provides the unique contig identifier, "Contig ID:", for contigs disclosed in Table 1B. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the invention are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth column of this Table (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone).

Description of Table 4

Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1B.2, column 5. Column 1 of Table 4 provides the tissue/cell source identifier code disclosed in Table 1B.2, Column 5. Columns 2-5 provide a description of the tissue or cell source. Note that "Description" and "Tissue" sources (i.e. columns 2 and 3) having the prefix "a_" indicates organs, tissues, or cells derived from "adult" sources. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease." The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.

Description of Table 5

Table 5 provides a key to the OMIM reference identification numbers disclosed in Table 1B.1, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center

for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). Column 2 provides diseases associated with the cytologic band disclosed in Table 1B.1, column 8, as determined using the Morbid Map database.

5 **Description of Table 6**

Table 6 summarizes some of the ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application. These deposits were made in addition to those described in the Table 1A.

10 **Description of Table 7**

Table 7 shows the cDNA libraries sequenced, and ATCC designation numbers and vector information relating to these cDNA libraries.

The first column shows the first four letters indicating the Library from which each library clone was derived. The second column indicates the catalogued tissue description for the
15 corresponding libraries. The third column indicates the vector containing the corresponding clones. The fourth column shows the ATCC deposit designation for each library clone as indicated by the deposit information in Table 6.

20 **Definitions**

The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the
25 hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis
30 and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide/sequences of the present invention.

In the present invention, a "secreted" protein refers to those proteins capable of being directed to the ER, secretory vesicles, or the extracellular space as a result of a signal sequence, as
35 well as those proteins released into the extracellular space without necessarily containing a signal sequence. If the secreted protein is released into the extracellular space, the secreted protein can

undergo extracellular processing to produce a "mature" protein. Release into the extracellular space can occur by many mechanisms, including exocytosis and proteolytic cleavage.

As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof (e.g., the polypeptide delineated in columns fourteen and fifteen of Table 1A); a nucleic acid sequence contained in SEQ ID NO:X (as described in column 5 of Table 1A and/or column 3 of Table 1B) or the complement thereof; a cDNA sequence contained in Clone ID: (as described in column 2 of Table 1A and/or Table 1B and contained within a library deposited with the ATCC); a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 (EXON From-To) of Table 1C or a fragment or variant thereof; or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1C or the complement thereof. For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-Phenylalanine or poly-Lysine peptide sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

In the present invention, "SEQ ID NO:X" was often generated by overlapping sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 2 of Table 1B, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID:). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID: to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1A and/or Table 1B correlates the Clone ID names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 1B, 6, 7, and 9 to determine the corresponding Clone ID, which library it came from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 7 and 8 of Table 1A or the complement thereof, the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID: (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein), and/or the polynucleotide sequence delineated in column 6 of Table 1C or the complement thereof. "Stringent hybridization conditions" refers to an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions. Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency); salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH_2PO_4 ; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 µg/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).

Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of

specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.

Of course, a polynucleotide which hybridizes only to polyA⁺ sequences (such as any 3' terminal polyA⁺ tract of a cDNA shown in the sequence listing), or to a complementary stretch of
5 T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).

The polynucleotide of the present invention can be composed of any polyribonucleotide or
10 polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-
15 stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons. "Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces
20 chemically, enzymatically, or metabolically modified forms.

In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the
25 coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

"SEQ ID NO:X" refers to a polynucleotide sequence described in column 5 of Table 1A, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 10 of Table 1A. SEQ ID NO:X is identified by an integer specified in column 6 of Table 1A. The polypeptide sequence
30 SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. The polynucleotide sequences are shown in the sequence listing immediately followed by all of the polypeptide sequences. Thus, a polypeptide sequence corresponding to polynucleotide sequence SEQ ID NO:2 is the first polypeptide sequence shown in the sequence listing. The
35

second polypeptide sequence corresponds to the polynucleotide sequence shown as SEQ ID NO:3, and so on.

The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphatidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation, myristoylation, oxidation, pegylation, proteolytic processing, phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992)).

"SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A, Table 1B, or Table 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 11 of Table 1A and or column 6 of Table 1B.1. SEQ ID NO:X is identified by an integer specified in column 4 of Table 1B. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID:" refers to a cDNA clone described in column 2 of Table 1A and/or 1B.

"A polypeptide having functional activity" refers to a polypeptide capable of displaying one or more known functional activities associated with a full-length (complete) protein. Such functional activities include, but are not limited to, biological activity (e.g. activity useful in

treating, preventing and/or ameliorating cancer and other hyperproliferative disorders), antigenicity (ability to bind [or compete with a polypeptide for binding] to an anti-polypeptide antibody), immunogenicity (ability to generate antibody which binds to a specific polypeptide of the invention), ability to form multimers with polypeptides of the invention, and ability to bind to a
5 receptor or ligand for a polypeptide.

The polypeptides of the invention can be assayed for functional activity (e.g. biological activity) using or routinely modifying assays known in the art, as well as assays described herein. Specifically, one of skill in the art may routinely assay secreted polypeptides (including fragments and variants) of the invention for activity using assays as described in the examples section below.

10 "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as
15 compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).

20 **TABLES:**

Table 1A

Table 1A summarizes information concerning certain polynucleotides and polypeptides of the invention. The first column provides the gene number in the application for each clone identifier. The second column provides a unique clone identifier, "Clone ID:", for a cDNA clone
25 related to each contig sequence disclosed in Table 1A. Third column, the cDNA Clones identified in the second column were deposited as indicated in the third column (i.e. by ATCC Deposit No:Z and deposit date). Some of the deposits contain multiple different clones corresponding to the same gene. In the fourth column, "Vector" refers to the type of vector contained in the corresponding cDNA Clone identified in the second column. In the fifth column, the nucleotide
30 sequence identified as "NT SEQ ID NO:X" was assembled from partially homologous ("overlapping") sequences obtained from the corresponding cDNA clone identified in the second column and, in some cases, from additional related cDNA clones. The overlapping sequences were assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a final sequence identified as SEQ
35 ID NO:X. In the sixth column, "Total NT Seq." refers to the total number of nucleotides in the contig sequence identified as SEQ ID NO:X." The deposited clone may contain all or most of these sequences, reflected by the nucleotide position indicated as "5' NT of Clone Seq." (seventh

column) and the "3' NT of Clone Seq." (eighth column) of SEQ ID NO:X. In the ninth column, the nucleotide position of SEQ ID NO:X of the putative start codon (methionine) is identified as "5' NT of Start Codon." Similarly, in column ten, the nucleotide position of SEQ ID NO:X of the predicted signal sequence is identified as "5' NT of First AA of Signal Pep." In the eleventh column, the translated amino acid sequence, beginning with the methionine, is identified as "AA SEQ ID NO:Y," although other reading frames can also be routinely translated using known molecular biology techniques. The polypeptides produced by these alternative open reading frames are specifically contemplated by the present invention.

In the twelfth and thirteenth columns of Table 1A, the first and last amino acid position of SEQ ID NO:Y of the predicted signal peptide is identified as "First AA of Sig Pep" and "Last AA of Sig Pep." In the fourteenth column, the predicted first amino acid position of SEQ ID NO:Y of the secreted portion is identified as "Predicted First AA of Secreted Portion". The amino acid position of SEQ ID NO:Y of the last amino acid encoded by the open reading frame is identified in the fifteenth column as "Last AA of ORF".

SEQ ID NO:X (where X may be any of the polynucleotide sequences disclosed in the sequence listing) and the translated SEQ ID NO:Y (where Y may be any of the polypeptide sequences disclosed in the sequence listing) are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, SEQ ID NO:X is useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in the deposited clone. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used, for example, to generate antibodies which bind specifically to proteins containing the polypeptides and the secreted proteins encoded by the cDNA clones identified in Table 1A and/or elsewhere herein

Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and the predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing a human cDNA of the invention deposited with the ATCC, as set forth in Table 1A. The nucleotide sequence of each deposited

plasmid can readily be determined by sequencing the deposited plasmid in accordance with known methods

The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular plasmid can also be directly
5 determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

Also provided in Table 1A is the name of the vector which contains the cDNA plasmid. Each vector is routinely used in the art. The following additional information is provided for convenience.

10 Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc.,
15 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene

Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained
20 from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59 (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available
25 from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID
30 NO:Y, and/or a deposited cDNA (cDNA Clone ID). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include, but are not limited to, preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

Also provided in the present invention are allelic variants, orthologs, and/or species
35 homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X and SEQ ID NO:Y using information from the sequences

disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

5 The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X and/or a cDNA contained in ATCC Deposit No.Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by a cDNA contained in ATCC deposit No.Z. Polynucleotides encoding a
10 polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X and/or a polypeptide encoded by the cDNA contained in ATCC Deposit No.Z, are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the complement of the coding strand of the cDNA
15 contained in ATCC Deposit No.Z.

Table 1A

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1	H2CBG48	209889 05/22/98	pBluescript SK-	11	2797	1	2797	125	125	948	1	25	26	45
2	H2MAC30	209299 09/25/97	pBluescript SK-	12	459	1	459	157	157	949	1	28	29	72
3	H6EAB28	209511 12/03/97	Uni-ZAP XR	13	1939	1	1939	115	115	950	1	31	32	100
3	H6EAB28	209511 12/03/97	Uni-ZAP XR	631	1547	1	1547	116	116	1568	1	20	21	76
4	H6EDF66	209299 09/25/97	Uni-ZAP XR	14	540	1	540	146	146	951	1	27	28	131
5	HABAG37	209626 02/12/98	pSport1	15	654	1	639	97	97	952	1	31	32	62
6	HACBD91	209626 02/12/98	Uni-ZAP XR	16	1445	1	1445	117	117	953	1	42	43	49
7	HACCI17	203071 07/27/98	Uni-ZAP XR	17	1722	336	1714	461	461	954	1	24	25	218
7	HACCI17	203071 07/27/98	Uni-ZAP XR	632	1380	12	1380	135	135	1569	1	24	25	72
8	HADA089	209423 10/30/97	pSport1	18	1453	1	1453	244	244	955	1	22	23	44

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secretd Portion	Last AA of ORF
9	HAGAI85	97922 03/07/97 209070 05/22/97	Uni-ZAP XR	19	1752	52	1752	166	166	956	1	23	24	30
10	HAGAM64	209603 01/29/98	Uni-ZAP XR	20	2321	1	2321	57	57	957	1	31	32	44
11	HAGAN21	PTA-841 10/13/99	Uni-ZAP XR	21	843	1	843	34	34	958	1	17	18	91
11	HAGAN21	PTA-841 10/13/99	Uni-ZAP XR	633	610	294	610	335	335	1570	1	17	18	91
11	HAGAN21	PTA-841 10/13/99	Uni-ZAP XR	634	659	1	659		452	1571	1			4
11	HAGAN21	PTA-841 10/13/99	Uni-ZAP XR	635	189	1	189		146	1572	1	13	14	14
11	HAGAN21	PTA-841 10/13/99	Uni-ZAP XR	636	637	1	637		321	1573	1			6
12	HAGBZ81	209118 06/12/97	Uni-ZAP XR	22	1382	24	1382		65	959	1	30	31	49
13	HAGDGS9	209277 09/18/97	Uni-ZAP XR	23	1734	44	1717	124	124	960	1	18	19	300
14	HAGDI35	209852 05/07/98	Uni-ZAP XR	24	1357	1	1338	318	318	961	1	25	26	93
15	HAGFG51	203364 10/19/98	Uni-ZAP XR	25	1313	1	1313	163	163	962	1	23	24	43
16	HAGFI62	209782 04/20/98	Uni-ZAP XR	26	1003	368	992	429	429	963	1	28	29	91

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
17	HAGFY16	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	27	1963	209	1922	251	251	964	1	28	29	198
17	HAGFY16	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	637	1830	87	1786	128	128	1574	1	26	27	45
18	HAHDB16	209626 02/12/98	Uni-ZAP XR	28	796	1	796	93	93	965	1	20	21	50
19	HAHDR32	209626 02/12/98	Uni-ZAP XR	29	1256	365	1256	435	435	966	1	25	26	181
20	HAIBO71	209145 07/17/97	Uni-ZAP XR	30	752	172	752	325	325	967	1	28	29	66
21	HAIBP89	209877 05/18/98	Uni-ZAP XR	31	2243	173	2243	311	311	968	1	27	28	317
21	HAIBP89	209877 05/18/98	Uni-ZAP XR	638	1025	1	1025		1	1575	1	1	2	18
22	HAICP19	209009 04/28/97	Uni-ZAP XR	32	1624	89	1483	128	128	969	1	18	19	446
23	HAIFL18	209852 05/07/98	Uni-ZAP XR	33	879	1	879	274	274	970	1	29	30	140
24	HAF57	203364 10/19/98	pCMV Sport 3.0	34	2761	1	2761	43	43	971	1	1	2	94
25	HAF69	209626 02/12/98	pCMV Sport 3.0	35	755	1	755	262	262	972	1	19	20	53

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
26	HABZ75	209603 01/29/98	pCMVSPORT 3.0	36	2089	10	2085	49	49	973	1	22	23	607
27	HAMFK58	209641 02/25/98	pCMVSPORT 3.0	37	785	1	785	279	279	974	1	31	32	79
28	HAMGG68	209878 05/18/98	pCMVSPORT 3.0	38	1458	1	1458	312	312	975	1	20	21	55
29	HANGG89	PTA-1543 03/21/00	pSport1	39	2657	348	2398	520	520	976	1	1	2	52
29	HANGG89	PTA-1543 03/21/00	pSport1	639	2454	1	2454	125	125	1576	1	23	24	98
29	HANGG89	PTA-1543 03/21/00	pSport1	640	1775	1	1775	70	70	1577	1	29	30	392
29	HANGG89	PTA-1543 03/21/00	pSport1	641	1379	1	1379	78	78	1578	1	26	27	434
30	HAPBS03	209651 03/04/98	Uni-ZAP XR	40	1503	45	1479	252	252	977	1	28	29	41
31	HAPNY86	209511 12/03/97	Uni-ZAP XR	41	1280	1	1280	100	100	978	1	25	26	129
32	HAPNY94	209889 05/22/98	Uni-ZAP XR	42	742	1	742	94	94	979	1	29	30	50
33	HAPPW30	209683 03/20/98	Uni-ZAP XR	43	1472	1	1472	59	59	980	1	22	23	264
33	HAPPW30	209683 03/20/98	Uni-ZAP XR	642	1508	14	1501	54	54	1579	1	22	23	91
34	HAPQT22	203070 07/27/98	Uni-ZAP XR	44	635	1	635	132	132	981	1	17	18	72

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
35	HAPUC89	203570 01/11/99	Uni-ZAP XR	45	1153	1	1153	385	385	982	1	25	26	140
36	HASAV70	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	46	729	1	729	94	94	983	1	20	21	110
36	HASAV70	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	643	1412	10	733	103	103	1580	1	20	21	110
37	HASCG84	209568 01/06/98	Uni-ZAP XR	47	1079	1	1079	216	216	984	1	32	33	53
38	HATAC53	209651 03/04/98	Uni-ZAP XR	48	1959	1	1959	97	97	985	1	21	22	248
38	HATAC53	209651 03/04/98	Uni-ZAP XR	644	1306	13	1306	99	99	1581	1	21	22	189
39	HATBR65	209626 02/12/98	Uni-ZAP XR	49	812	1	812	252	252	986	1	16	17	64
40	HATCB92	209683 03/20/98	Uni-ZAP XR	50	1756	1	1756	247	247	987	1	37	38	56
41	HATCP77	209965 06/11/98	Uni-ZAP XR	51	2098	1	2098	37	37	988	1	21	22	182
42	HATEE46	209407 10/23/97	Uni-ZAP XR	52	1675	136	863	241	241	989	1	21	22	53
43	HBAFJ33	209603 01/29/98	pSport1	53	1280	1	1252	60	60	990	1	15	16	110

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
44	HBAFV19	PTA-1543 03/21/00	pSport1	54	953	1	953	6	6	991	1	1	2	258
45	HBAMB34	209324 10/02/97	pSport1	55	1027	1	1027	87	87	992	1	35	36	48
46	HBCPB32	PTA-2075 06/09/00	pSport1	56	1368	1	1368	88	88	993	1	37	38	202
46	HBCPB32	PTA-2075 06/09/00	pSport1	645	729	1	729	89	89	1582	1	37	38	196
47	HBCQL32	PTA-2075 06/09/00	pSport1	57	402	1	402	26	26	994	1	20	21	80
47	HBCQL32	PTA-2075 06/09/00	pSport1	646	1180	741	1180	760	760	1583	1	20	21	80
48	HBGNU56	PTA-2073 06/09/00	Uni-ZAP XR	58	864	1	864	125	125	995	1	21	22	185
48	HBGNU56	PTA-2073 06/09/00	Uni-ZAP XR	647	941	1	941	79	79	1584	1	21	22	178
48	HBGNU56	PTA-2073 06/09/00	Uni-ZAP XR	648	988	804	853		2	1585	1	1	2	219
49	HBHAD12	209009 04/28/97	Uni-ZAP XR	59	786	1	786		176	996	1	17	18	23
50	HBHMA23	209782 04/20/98	pSport1	60	1175	2	1175	71	71	997	1	24	25	197
50	HBHMA23	209782 04/20/98	pSport1	649	1172	1	1172	70	70	1586	1	24	25	76
51	HBIMB51	209683 03/20/98	pCMV Sport 3.0	61	537	1	537	98	98	998	1	21	22	146

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
51	HBIMB51	209683 03/20/98	pCMVSPORT 3.0	650	526	1	526	93	93	1587	1	21	22	130
52	HBINS58	PTA-885 10/28/99	pCMVSPORT 3.0	62	843	1	843	57	57	999	1	30	31	174
52	HBINS58	PTA-885 10/28/99	pCMVSPORT 3.0	651	1566	1	1566	71	71	1588	1	29	30	173
52	HBINS58	PTA-885 10/28/99	pCMVSPORT 3.0	652	1067	1	1067	100	100	1589	1	29	30	210
53	HBJFU48	209125 06/19/97	Uni-ZAP XR	63	849	1	849	20	20	1000	1	39	40	40
54	HBJY92	203071 07/27/98	Uni-ZAP XR	64	2434	487	2366	548	548	1001	1	29	30	40
55	HBJLC01	209651 03/04/98	Uni-ZAP XR	65	872	1	872	87	87	1002	1	34	35	46
56	HBJLF01	209877 05/18/98	Uni-ZAP XR	66	1932	201	1931	217	217	1003	1	46	47	244
57	HBJLH40	203499 12/01/98	Uni-ZAP XR	67	1853	1	1853	74	74	1004	1	30	31	74
58	HBJNC59	PTA-622 09/02/99	Uni-ZAP XR	68	1061	1	1061	66	66	1005	1	22	23	245
58	HBJNC59	PTA-622 09/02/99	Uni-ZAP XR	653	1021	1	1021	66	66	1590	1	22	23	99
58	HBJNC59	PTA-622 09/02/99	Uni-ZAP XR	654	1086	1	1023	64	64	1591	1	22	23	245

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
59	HBMCI50	97978 03/27/97 209075 05/22/97	pBluescript	69	920	1	920	156	156	1006	1	29	30	83
60	HBNAW17	209242 09/12/97	Uni-ZAP XR	70	601	1	601	77	77	1007	1	37	38	61
61	HBOEG11	PTA-2072 06/09/00	pSport1	71	1356	1	1356	57	57	1008	1	22	23	250
61	HBOEG11	PTA-2072 06/09/00	pSport1	655	1352	1	1352	53	53	1592	1	22	23	250
61	HBOEG11	PTA-2072 06/09/00	pSport1	656	1337	1	1289	47	47	1593	1	22	23	250
62	HBOEG69	203081 07/30/98	pSport1	72	1411	1	1411	302	302	1009	1	19	20	54
63	HBXFL29	203858 03/18/99	ZAP Express	73	2229	376	2210	560	560	1010	1	31	32	57
64	HCACU58	209626 02/12/98	Uni-ZAP XR	74	1554	1	1554	137	137	1011	1	30	31	83
65	HCACV51	209551 12/12/97	Uni-ZAP XR	75	2083	1	2083	168	168	1012	1	31	32	81
65	HCACV51	209551 12/12/97	Uni-ZAP XR	657	2092	1	2092	173	173	1594	1	31	32	281
66	HCDAF84	209300 09/25/97	Uni-ZAP XR	76	427	1	427	168	168	1013	1	18	19	56
67	HCE1Q89	209242 09/12/97	Uni-ZAP XR	77	863	1	863	74	74	1014	1	17	18	88

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
68	HCE2F54	209626 02/12/98	Uni-ZAP XR	78	1276	19	1256	166	166	1015	1	19	20	319
69	HCEFB80	PTA-2069 06/09/00	Uni-ZAP XR	79	2494	1	2494	12	12	1016	1	35	36	89
69	HCEFB80	PTA-2069 06/09/00	Uni-ZAP XR	658	2494	1	2451	5	5	1595	1	35	36	89
70	HCEGR33	209090 06/05/97	Uni-ZAP XR	80	1630	1	1630	243	243	1017	1	18	19	31
71	HCEMP62	209745 04/07/98	Uni-ZAP XR	81	1860	269	1726	352	352	1018	1	30	31	187
71	HCEMP62	209745 04/07/98	Uni-ZAP XR	659	1957	582	1823	19	19	1596	1	33	34	335
72	HCENK38	209651 03/04/98	Uni-ZAP XR	82	1509	1	1509	10	10	1019	1	28	29	52
73	HCEWE17	PTA-842 10/13/99	Uni-ZAP XR	83	967	1	967	117	117	1020	1	23	24	106
73	HCEWE17	PTA-842 10/13/99	Uni-ZAP XR	660	730	247	730	500	500	1597	1	19	20	27
73	HCEWE17	PTA-842 10/13/99	Uni-ZAP XR	661	550	1	550		156	1598	1	1	2	54
74	HCEWE20	209300 09/25/97	Uni-ZAP XR	84	885	13	885	166	166	1021	1	18	19	51
75	HCFCU88	209324 10/02/97	pSport1	85	853	1	853	217	217	1022	1	18	19	97
76	HCFMV71	209242 09/12/97	pSport1	86	400	1	400	31	31	1023	1	24	25	58

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
77	HCFNN01	209086 05/29/97	pSport1	87	1261	154	1261	254	254	1024	1	27	28	43
78	HCFOM18	209324 10/02/97	pSport1	88	639	1	639	28	28	1025	1	20	21	63
79	HCHNF25	209651 03/04/98	pSport1	89	3576	1	3576	1130	1130	1026	1	30	31	169
79	HCHNF25	209651 03/04/98	pSport1	662	807	1	807	180	180	1599	1	30	31	147
80	HCMST14	209877 05/18/98	Uni-ZAP XR	90	1262	1	1262	148	148	1027	1	19	20	88
81	HCMST14	209346 10/09/97	Uni-ZAP XR	91	614	1	614	136	136	1028	1	24	25	47
82	HCMSTB45	209368 10/16/97	Uni-ZAP XR	92	958	1	958	215	215	1029	1	20	21	123
82	HCMSTB45	209368 10/16/97	Uni-ZAP XR	663	946	1	946	209	209	1600	1	27	28	70
83	HCFNSB61	209242 09/12/97	pBluescript	93	712	1	712	218	218	1030	1	21	22	43
84	HCFNSD93	209627 02/12/98	pBluescript	94	1106	1	1106	139	139	1031	1	21	22	46
85	HCFNSM70	209580 01/14/98	pBluescript	95	1089	1	1089	107	107	1032	1	26	27	215
85	HCFNSM70	209580 01/14/98	pBluescript	664	1145	62	1145	161	161	1601	1	26	27	91
86	HCOOS80	PTA-2076 06/09/00	pSport1	96	1254	1	1254	36	36	1033	1	26	27	158

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
86	HCOOS80	PTA-2076 06/09/00	pSport1	665	869	15	869	40	40	1602	1	26	27	158
86	HCOOS80	PTA-2076 06/09/00	pSport1	666	692	339	506		1	1603	1	1	2	106
87	HCUBS50	209215 08/21/97	ZAP Express	97	865	1	865	88	88	1034	1	34	35	38
88	HCUCK44	209853 05/07/98	ZAP Express	98	1139	573	1133	593	593	1035	1	30	31	60
89	HCUEO60	209215 08/21/97	ZAP Express	99	1222	1	1222	102	102	1036	1	34	35	64
90	HCUHK65	209641 02/25/98	ZAP Express	100	367	1	367	80	80	1037	1	26	27	79
90	HCUHK65	209641 02/25/98	ZAP Express	667	3113	2577	2946	770	770	1604	1	30	31	708
91	HCUIM65	209324 10/02/97	ZAP Express	101	875	331	736	557	557	1038	1	27	28	47
92	HCWEB58	PTA-883 10/28/99	ZAP Express	102	1283	1	1283	148	148	1039	1	27	28	343
92	HCWEB58	PTA-883 10/28/99	ZAP Express	668	980	1	980	247	247	1605	1	27	28	244
92	HCWEB58	PTA-883 10/28/99	ZAP Express	669	888	1	888	155	155	1606	1	27	28	244
93	HCWGU37	PTA-883 10/28/99	ZAP Express	103	2777	1	2777	194	194	1040	1			10
93	HCWGU37	PTA-883 10/28/99	ZAP Express	670	1651	1	1651	187	187	1607	1			10

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
94	HCWKC15	209324 10/02/97	ZAP Express	104	710	1	710	37	37	1041	1	18	19	40
95	HCWLD74	209626 02/12/98	ZAP Express	105	1540	1	1540	138	138	1042	1	21	22	65
96	HCWUM50	209627 02/12/98	ZAP Express	106	1428	208	1428	270	270	1043	1	30	31	45
97	HCYBG92	209563 12/18/97	pBluescript SK-	107	3061	1	2661	118	118	1044	1	21	22	274
98	HDABR72	209965 06/11/98	pSport1	108	1691	1	1691	33	33	1045	1	29	30	146
98	HDABR72	209965 06/11/98	pSport1	671	1746	1	1746	28	28	1608	1	29	30	146
99	HDHEB60	209215 08/21/97	pCMVSPORT 2.0	109	1421	235	1421	568	568	1046	1	24	25	108
100	HDHIA94	209627 02/12/98	pCMVSPORT 2.0	110	1489	1	1489	154	154	1047	1	30	31	168
100	HDHIA94	209627 02/12/98	pCMVSPORT 2.0	672	2492	1	2492	163	163	1609	1	30	31	48
101	HDHMA72	209324 10/02/97	pCMVSPORT 2.0	111	4463	216	2158	287	287	1048	1	36	37	315
102	HDLAC10	209745 04/07/98	pCMVSPORT 2.0	112	1477	1	1477	132	132	1049	1	29	30	81
103	HDLAO28	PTA-499 08/11/99	pCMVSPORT 2.0	113	1984	1	1984	259	259	1050	1	21	22	76
104	HDPB132	209853 05/07/98	pCMVSPORT 3.0	114	1513	1	1513	37	37	1051	1	315	316	316

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
104	HDPBI32	209853 05/07/98	pCMVSPORT 3.0	673	1579	598	1184	103	103	1610	1	30	31	271
104	HDPBI32	209853 05/07/98	pCMVSPORT 3.0	674	587	1	587	51	51	1611	1	35	36	138
105	HDPBQ71	209877 05/18/98	pCMVSPORT 3.0	115	2312	1	2312	93	93	1052	1	33	34	612
105	HDPBQ71	209877 05/18/98	pCMVSPORT 3.0	675	2242	6	2242	24	24	1612	1	33	34	612
105	HDPBQ71	209877 05/18/98	pCMVSPORT 3.0	676	2381	146	2381	165	165	1613	1	33	34	456
106	HDPCJ91	209877 05/18/98	pCMVSPORT 3.0	116	6107	1	6107	131	131	1053	1	28	29	51
107	HDPCO25	209125 06/19/97	pCMVSPORT 3.0	117	767	76	767	182	182	1054	1	20	21	53
108	HDPCY37	209568 01/06/98	pCMVSPORT 3.0	118	1932	45	1932	76	76	1055	1	21	22	578
108	HDPCY37	209568 01/06/98	pCMVSPORT 3.0	677	1931	45	1931	76	76	1614	1	21	22	264
109	HDPFB02	PTA-622 09/02/99	pCMVSPORT 3.0	119	3436	1	3436	173	173	1056	1	19	20	152
109	HDPFB02	PTA-622 09/02/99	pCMVSPORT 3.0	678	1517	1	1517	139	139	1615	1	28	29	316
109	HDPFB02	PTA-622 09/02/99	pCMVSPORT 3.0	679	2751	1976	2751	218	218	1616	1	18	19	302
110	HDPFF39	209511 12/03/97	pCMVSPORT 3.0	120	1256	1	1256	175	175	1057	1	18	19	196

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
111	HDPFP29	209626 02/12/98	pCMV/Sport 3.0	121	1057	1	1057	293	293	1058	1	30	31	52
112	HDPGI49	203070 07/27/98	pCMV/Sport 3.0	122	2683	1	2640	266	266	1059	1	29	30	72
113	HDPGP94	203364 10/19/98	pCMV/Sport 3.0	123	3881	1	3881	256	256	1060	1	18	19	74
114	HDPHI51	209125 06/19/97	pCMV/Sport 3.0	124	728	1	728	245	245	1061	1	30	31	40
115	HDPJF37	209852 05/07/98	pCMV/Sport 3.0	125	986	1	986	196	196	1062	1	23	24	57
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	126	4893	1	4893	100	100	1063	1	37	38	937
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	680	468	1	468	141	141	1617	1	20	21	109
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	681	181	1	181		44	1618	1	7	8	46
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	682	612	1	612		419	1619	1			6
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	683	1024	1	1024		111	1620	1	5	6	11
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	684	366	18	321		167	1621	1	1	2	56
116	HDPMM88	PTA-848 10/13/99	pCMV/Sport 3.0	685	519	1	519		28	1622	1	1	2	53
117	HDPNC61	209627 02/12/98	pCMV/Sport 3.0	127	1410	1	1410	20	20	1064	1	22	23	94

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
118	HDPND46	209627 02/12/98	pCMVSPORT 3.0	128	1727	1	1727	15	15	1065	1	22	23	484
119	HDPOE32	PTA-622 09/02/99	pCMVSPORT 3.0	129	1353	1	1353	118	118	1066	1	34	35	151
120	HDPOH06	209745 04/07/98	pCMVSPORT 3.0	130	2504	1	2504	252	252	1067	1	29	30	242
121	HDPOZ56	209889 05/22/98	pCMVSPORT 3.0	131	1905	1	1905	91	91	1068	1	21	22	567
121	HDPOZ56	209889 05/22/98	pCMVSPORT 3.0	686	1867	415	1867	103	103	1623	1	21	22	566
121	HDPOZ56	209889 05/22/98	pCMVSPORT 3.0	687	1722	1	1722	59	59	1624	1	21	22	319
122	HDPSP54	209782 04/20/98	pCMVSPORT 3.0	132	3091	2304	3091	2356	2356	1069	1	18	19	48
122	HDPSP54	209782 04/20/98	pCMVSPORT 3.0	688	536	1	536	179	179	1625	1	41	42	55
123	HDPTD15	209782 04/20/98	pCMVSPORT 3.0	133	1396	1	1396	223	223	1070	1	18	19	200
124	HDPTK41	209965 06/11/98	pCMVSPORT 3.0	134	1564	1	1564	39	39	1071	1	26	27	369
125	HDPUG50	209745 04/07/98	pCMVSPORT 3.0	135	1734	1	1734	22	22	1072	1	34	35	526
126	HDPUH26	PTA-163 06/01/99	pCMVSPORT 3.0	136	2916	1	2916	90	90	1073	1	18	19	549
127	HDP UW68	203331 10/08/98	pCMVSPORT 3.0	137	1748	1	1748	40	40	1074	1	18	19	467

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
128	HDPVH60	203105 08/13/98	pCMVSPORT 3.0	138	3116	1	3100	8	8	1075	1	45	46	51
129	HDPVW11	PTA-869 10/26/99	pCMVSPORT 3.0	139	2339	1	2339	67	67	1076	1	28	29	455
129	HDPVW11	PTA-869 10/26/99	pCMVSPORT 3.0	689	397	1	397	50	50	1626	1	28	29	99
130	HDPWN93	PTA-868 10/26/99	pCMVSPORT 3.0	140	2679	1	2669	45	45	1077	1	19	20	802
130	HDPWN93	PTA-868 10/26/99	pCMVSPORT 3.0	690	716	1	716	35	35	1627	1	19	20	214
130	HDPWN93	PTA-868 10/26/99	pCMVSPORT 3.0	691	2716	26	2716	27	27	1628	1	19	20	43
131	HDPWU34	209782 04/20/98	pCMVSPORT 3.0	141	1277	860	1277	117	117	1078	1	23	24	325
131	HDPWU34	209782 04/20/98	pCMVSPORT 3.0	692	427	1	427	111	111	1629	1	16	17	44
132	HDQHD03	203570 01/11/99	pCMVSPORT 3.0	142	1266	1	1266	274	274	1079	1	20	21	331
132	HDQHD03	203570 01/11/99	pCMVSPORT 3.0	693	1257	1	1257	259	259	1630	1	20	21	333
133	HDTBD53	PTA-848 10/13/99	pCMVSPORT 2.0	143	2803	1	2803	288	288	1080	1	22	23	365
133	HDTBD53	PTA-848 10/13/99	pCMVSPORT 2.0	694	3302	1	2718	292	292	1631	1	22	23	365
134	HDTBP04	209300 09/25/97	pCMVSPORT 2.0	144	961	1	961	70	70	1081	1	15	16	219

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
134	HDTBP04	209300 09/25/97	pCMVSPORT 2.0	695	959	1	959	65	65	1632	1	15	16	220
135	HDTDQ23	209965 06/11/98	pCMVSPORT 2.0	145	2207	1	2207	132	132	1082	1	20	21	56
135	HDTDQ23	209965 06/11/98	pCMVSPORT 2.0	696	2227	1	2206	148	148	1633	1	20	21	108
135	HDTDQ23	209965 06/11/98	pCMVSPORT 2.0	697	2214	1	2206	148	148	1634	1	20	21	73
136	HDTEK44	PTA-867 10/26/99	pCMVSPORT 2.0	146	2070	20	2070		691	1083	1	12	13	83
136	HDTEK44	PTA-867 10/26/99	pCMVSPORT 2.0	698	1005	1	1005	175	175	1635	1	17	18	67
136	HDTEK44	PTA-867 10/26/99	pCMVSPORT 2.0	699	2988	1	2988	116	116	1636	1	17	18	67
136	HDTEK44	PTA-867 10/26/99	pCMVSPORT 2.0	700	2052	2	2052		673	1637	1	12	13	83
137	HDTEN81	209463 11/14/97	pCMVSPORT 2.0	147	566	1	566	114	114	1084	1	17	18	85
138	HDTFE17	PTA-868 10/26/99	pCMVSPORT 2.0	148	1242	1	1242	260	260	1085	1	20	21	29
138	HDTFE17	PTA-868 10/26/99	pCMVSPORT 2.0	701	628	1	628	251	251	1638	1	20	21	29
138	HDTFE17	PTA-868 10/26/99	pCMVSPORT 2.0	702	923	29	903		101	1639	1	6	7	80
139	HDTGC73	209627 02/12/98	pCMVSPORT 2.0	149	712	1	712	386	386	1086	1	31	32	49

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
140	HDTIT10	203570 01/11/99	pCMVSPORT 2.0	150	1200	1	813	58	58	1087	1	56	57	297
140	HDTIT10	203570 01/11/99	pCMVSPORT 2.0	703	1159	1	805	161	161	1640	1	30	31	56
141	HDTMK50	PTA-884 10/28/99	pCMVSPORT 2.0	151	1352	1	1352	154	154	1088	1	21	22	51
141	HDTMK50	PTA-884 10/28/99	pCMVSPORT 2.0	704	912	1	912	164	164	1641	1	21	22	51
141	HDTMK50	PTA-884 10/28/99	pCMVSPORT 2.0	705	321	1	321		200	1642	1			1
142	HE2DY70	209877 05/18/98	Uni-ZAP XR	152	639	1	639	137	137	1089	1	45	46	58
143	HE2EB74	209225 08/28/97	Uni-ZAP XR	153	1434	311	1418	507	507	1090	1	15	16	19
144	HE2EN04	209300 09/25/97	Uni-ZAP XR	154	370	1	370	57	57	1091	1	16	17	50
145	HE2FV03	97955 03/13/97 209074 05/22/97	Uni-ZAP XR	155	2067	1	1251	116	116	1092	1	21	22	42
146	HE2NV57	209877 05/18/98	Uni-ZAP XR	156	867	1	867	99	99	1093	1	36	37	99
147	HE2PD49	209627 02/12/98	Uni-ZAP XR	157	1422	257	1404	337	337	1094	1	18	19	171
148	HE2PY40	209965 06/11/98	Uni-ZAP XR	158	1288	1	1288	147	147	1095	1	22	23	83

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
149	HE6EU50	97975 04/04/97 209081 05/29/97	Uni-ZAP XR	159	1152	117	686	237	237	1096	1	20	21	34
150	HE8DS15	PTA-1544 03/21/00	Uni-ZAP XR	160	2199	1	2199	91	91	1097	1	24	25	72
151	HE8MH91	209603 01/29/98	Uni-ZAP XR	161	1761	1	1761	63	63	1098	1	23	24	116
152	HE8QV67	PTA-2072 06/09/00	Uni-ZAP XR	162	1999	643	1999	502	502	1099	1	49	50	80
152	HE8QV67	PTA-2072 06/09/00	Uni-ZAP XR	706	2342	1956	2276		256	1643	1	1	2	415
153	HE9BK23	209683 03/20/98	Uni-ZAP XR	163	1636	1	1636	39	39	1100	1	21	22	309
154	HE9CP41	209368 10/16/97	Uni-ZAP XR	164	1392	1	1392	132	132	1101	1	20	21	41
155	HE9DG49	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	165	717	1	717	70	70	1102	1	28	29	201
155	HE9DG49	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	707	717	1	717	70	70	1644	1	27	28	201

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
155	HE9DG49	97923 03/07/97 209071 05/22/97	Uni-ZAP XR	708	713	17	713	78	78	1645	1	28	29	203
156	HE9HY07	209010 04/28/97 209085 05/29/97	Uni-ZAP XR	166	832	1	832	35	35	1103	1	26	27	41
157	HE9NN84		Uni-ZAP XR	167	734	1	734	380	380	1104	1	38	39	53
158	HE9OW20	203570 01/11/99	Uni-ZAP XR	168	1209	1	1209	129	129	1105	1	33	34	355
158	HE9OW20	203570 01/11/99	Uni-ZAP XR	709	1165	1	1165	136	136	1646	1	30	31	313
158	HE9OW20	203570 01/11/99	Uni-ZAP XR	710	1160	1	1160	129	129	1647	1	30	31	134
159	HE9RM63	PTA-499 08/11/99	Uni-ZAP XR	169	2149	1	2149	82	82	1106	1	27	28	354
160	HEAAR07	209346 10/09/97	Uni-ZAP XR	170	1084	1	1084	48	48	1107	1	31	32	42
161	HEBAE88	209242 09/12/97	Uni-ZAP XR	171	582	1	582	160	160	1108	1	26	27	42
162	HEBBN36	209141 07/09/97	Uni-ZAP XR	172	1046	470	1046	645	645	1109	1	29	30	53
163	HEBCM63	209141 07/09/97	Uni-ZAP XR	173	558	1	558	246	246	1110	1	26	27	68

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
164	HEBEJ18	203069 07/27/98	Uni-ZAP XR	174	685	7	649	51	51	1111	1	15	16	139
165	HEEAG23	209745 04/07/98	Uni-ZAP XR	175	1669	25	1280	57	57	1112	1	18	19	46
166	HEEAJ02	209627 02/12/98	Uni-ZAP XR	176	1038	148	1037	387	387	1113	1	40	41	125
167	HEEAQ11	203071 07/27/98	Uni-ZAP XR	177	921	1	921	213	213	1114	1	28	29	147
168	HEEBI05	PTA-2076 06/09/00	Uni-ZAP XR	178	894	1	894	146	146	1115	1	22	23	159
168	HEEBI05	PTA-2076 06/09/00	Uni-ZAP XR	711	979	88	979	226	226	1648	1	22	23	159
169	HEGAH43	209277 09/18/97	Uni-ZAP XR	179	442	1	442	29	29	1116	1	20	21	111
170	HEGAN94	203071 07/27/98	Uni-ZAP XR	180	582	1	582	52	52	1117	1	23	24	121
170	HEGAN94	203071 07/27/98	Uni-ZAP XR	712	680	1	680	133	133	1649	1	23	24	121
171	HEGBS69	PTA-2082 06/09/00	Uni-ZAP XR	181	809	1	809	260	260	1118	1	20	21	161
171	HEGBS69	PTA-2082 06/09/00	Uni-ZAP XR	713	1188	1	807	253	253	1650	1	20	21	161
172	HELGK31	209878 05/18/98	Uni-ZAP XR	182	1396	25	1334	209	209	1119	1	29	30	344
172	HELGK31	209878 05/18/98	Uni-ZAP XR	714	1342	68	1342	402	402	1651	1	1	2	291

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
173	HELHD85	PTA-1544 03/21/00	Uni-ZAP XR	183	1886	1	1886	41	41	1120	1	25	26	79
174	HELHL48	209877 05/18/98	Uni-ZAP XR	184	2971	560	2557	629	629	1121	1	16	17	291
174	HELHL48	209877 05/18/98	Uni-ZAP XR	715	1955	1	1955	31	31	1652	1	16	17	184
175	HEMAM41	209010 04/28/97 209085 05/29/97	Uni-ZAP XR	185	1337	60	1328	175	175	1122	1	39	40	190
175	HEMAM41	209010 04/28/97 209085 05/29/97	Uni-ZAP XR	716	1338	33	1327	175	175	1653	1	32	33	91
176	HEPAA46	209551 12/12/97	Uni-ZAP XR	186	1129	1	1129	18	18	1123	1	20	21	123
177	HEPAB80	209423 10/30/97	Uni-ZAP XR	187	799	1	799	73	73	1124	1	28	29	121
177	HEPAB80	209423 10/30/97	Uni-ZAP XR	717	802	1	802	67	67	1654	1	28	29	122
178	HEQAK71	209551 12/12/97	pCMVSPORT 3.0	188	1689	1	1689	198	198	1125	1	17	18	44
179	HERAR44	209407 10/23/97	Uni-ZAP XR	189	420	1	420	60	60	1126	1	40	41	45
180	HESAJ10	209242 09/12/97	Uni-ZAP XR	190	1090	400	1090	405	405	1127	1	23	24	71

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
181	HETAB45	209580 01/14/98	Uni-ZAP XR	191	1676	1	1676	123	123	1128	1	30	31	179
182	HETBR16	209877 05/18/98	Uni-ZAP XR	192	1569	1	1569	161	161	1129	1	21	22	64
183	HETLM70	PTA-2073 06/09/00	Uni-ZAP XR	193	1251	1	1199	336	336	1130	1	27	28	229
183	HETLM70	PTA-2073 06/09/00	Uni-ZAP XR	718	1251	1	1251	336	336	1655	1	27	28	229
183	HETLM70	PTA-2073 06/09/00	Uni-ZAP XR	719	517	161	517		2	1656	1	1	2	85
184	HFABG18	PTA-1544 03/21/00	Uni-ZAP XR	194	1345	1	1345	53	53	1131	1	26	27	87
185	HFAMB72	209146 07/17/97	Uni-ZAP XR	195	1323	509	1323	559	559	1132	1	22	23	60
186	HFAMH77	209300 09/25/97	Uni-ZAP XR	196	669	96	669	240	240	1133	1	33	34	61
187	HFCCQ50	209463 11/14/97	Uni-ZAP XR	197	1271	1	1271	47	47	1134	1	20	21	352
188	HFCEW05	209603 01/29/98	Uni-ZAP XR	198	933	1	933	34	34	1135	1	18	19	209
189	HFAD59	209242 09/12/97	Lambda ZAP II	199	470	1	470	44	44	1136	1	17	18	45
190	HFFAL36	209368 10/16/97	Lambda ZAP II	200	1020	1	1020	68	68	1137	1	35	36	56
191	HFGAD82	209225 08/28/97	Uni-ZAP XR	201	1881	772	1861	1019	1019	1138	1	18	19	38

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
192	HF11Z70	PTA-846 10/13/99	pSport1	202	1408	1	1408	24	24	1139	1	23	24	47
192	HF11Z70	PTA-846 10/13/99	pSport1	720	1441	43	1441	74	74	1657	1	23	24	47
193	HFKET18	PTA-622 09/02/99	Uni-ZAP XR	203	2407	1	2407	137	137	1140	1	14	15	74
194	HFKFG02	209627 02/12/98	Uni-ZAP XR	204	795	1	795	110	110	1141	1	18	19	53
195	HFOXBI3	209423 10/30/97	pSport1	205	1169	1	1169	36	36	1142	1	21	22	54
196	HFPAC12	209511 12/03/97	Uni-ZAP XR	206	1088	1	1088	140	140	1143	1	21	22	88
197	HFPAC071	209626 02/12/98	Uni-ZAP XR	207	2067	364	2067	414	414	1144	1	33	34	131
198	HFPXC09	209551 12/12/97	Uni-ZAP XR	208	2213	1	2213	185	185	1145	1	26	27	549
198	HFPXC09	209551 12/12/97	Uni-ZAP XR	721	2674	59	2674	249	249	1658	1	26	27	549
198	HFPXC09	209551 12/12/97	Uni-ZAP XR	722	2207	1	2207	185	185	1659	1	26	27	66
199	HFPXC36	209242 09/12/97	Uni-ZAP XR	209	796	1	796	103	103	1146	1	27	28	46
200	HFRAN90	209242 09/12/97	Uni-ZAP XR	210	532	1	532	178	178	1147	1	33	34	54
201	HFTCU19	209119 06/12/97	Uni-ZAP XR	211	1575	1266	1575	137	137	1148	1	30	31	222

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
201	HFTCU19	209119 06/12/97	Uni-ZAP XR	723	470	1	470	157	157	1660	1	24	25	56
202	HFTDL56	209782 04/20/98	Uni-ZAP XR	212	1839	32	1838	93	93	1149	1	20	21	519
203	HFTDZ36	209300 09/25/97	Uni-ZAP XR	213	1103	231	1103	547	547	1150	1	22	23	68
204	HFVAB79	209368 10/16/97	Uni-ZAP XR	214	1175	1	1175	133	133	1151	1	15	16	194
204	HFVAB79	209368 10/16/97	Uni-ZAP XR	724	1186	1	1186	139	139	1661	1	15	16	194
205	HFVGE32	PTA-844 10/13/99	pBluescript	215	572	1	572	154	154	1152	1	32	33	79
205	HFVGE32	PTA-844 10/13/99	pBluescript	725	470	2	470		1	1662	1	1	2	67
206	HFVIC62	203105 08/13/98	pBluescript	216	1350	1	1350	114	114	1153	1	31	32	56
207	HFXAM76	209568 01/06/98	Lambda ZAP II	217	947	1	947	213	213	1154	1	24	25	79
208	HFXDJ75	209603 01/29/98	Lambda ZAP II	218	1918	1	1914	44	44	1155	1	26	27	41
209	HFXDN63	209346 10/09/97	Lambda ZAP II	219	1026	1	1026	33	33	1156	1	14	15	53
210	HFXGT26	209965 06/11/98	Lambda ZAP II	220	1757	1	1757	13	13	1157	1	22	23	85
211	HFXGV31	209242 09/12/97	Lambda ZAP II	221	752	1	752	100	100	1158	1	24	25	64

Gene No.	cDNA Clone ID	ATCC Deposit No.:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
212	HFXHD88	209511 12/03/97	Lambda ZAP II	222	1602	1	1602	130	130	1159	1	41	42	128
213	HFXHK73	209580 01/14/98	Lambda ZAP II	223	1873	1	1873	247	247	1160	1	36	37	67
214	HFXKJ03	209215 08/21/97	Lambda ZAP II	224	941	1	941	179	179	1161	1	33	34	41
215	HFXKT05	209651 03/04/98	Lambda ZAP II	225	1715	1	1715	204	204	1162	1	18	19	79
216	HFXKY27	209877 05/18/98	Lambda ZAP II	226	945	1	945	44	44	1163	1	19	20	58
217	HGBFO79	209011 04/28/97	Uni-ZAP XR	227	1538	259	1538	273	273	1164	1	23	24	49
218	HGBHE57	209407 10/23/97	Uni-ZAP XR	228	663	1	663	14	14	1165	1	19	20	68
219	HGBIB74	203648 02/09/99	Uni-ZAP XR	229	1816	1	1804	14	14	1166	1	23	24	377
219	HGBIB74	203648 02/09/99	Uni-ZAP XR	726	1821	1	1821	28	28	1663	1	20	21	170
219	HGBIB74	203648 02/09/99	Uni-ZAP XR	727	1094	1	1094		2	1664	1	1	2	151
220	HGLAL82	209242 09/12/97	Uni-ZAP XR	230	406	1	406	144	144	1167	1	19	20	26
221	HHAAF20	203648 02/09/99	Uni-ZAP XR	231	1495	1	1495	141	141	1168	1	18	19	55
222	HHBCS39	PTA-848 10/13/99	pCMVSPORT 1	232	2895	1	2895	104	104	1169	1	26	27	166

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
222	HHBCS39	PTA-848 10/13/99	pCMVSPORT 1	728	1042	1	1042	150	150	1665	1	26	27	166
222	HHBCS39	PTA-848 10/13/99	pCMVSPORT 1	729	1556	171	1556		1260	1666	1	16	17	26
223	HHEAA08	209853 05/07/98	pCMVSPORT 3.0	233	2150	1	2150	88	88	1170	1	38	39	79
223	HHEAA08	209853 05/07/98	pCMVSPORT 3.0	730	615	1	615		311	1667	1	13	14	20
224	HHEMA59	203364 10/19/98	pCMVSPORT 3.0	234	3102	1	3099	239	239	1171	1	20	21	76
225	HHEMA75	209179 07/24/97	pCMVSPORT 3.0	235	865	229	865	569	569	1172	1	35	36	84
226	HHEMM74	PTA-849 10/13/99	pCMVSPORT 3.0	236	2612	1	2612	94	94	1173	1	27	28	74
226	HHEMM74	PTA-849 10/13/99	pCMVSPORT 3.0	731	1125	1	1125	121	121	1668	1	27	28	74
226	HHEMM74	PTA-849 10/13/99	pCMVSPORT 3.0	732	2297	1425	2297		706	1669	1	6	7	33
226	HHEMM74	PTA-849 10/13/99	pCMVSPORT 3.0	733	482	33	482		7	1670	1	13	14	53
227	HHENQ22	209511 12/03/97	pCMVSPORT 3.0	237	1899	1	1899	115	115	1174	1	36	37	58
228	HHEPD24	209195 08/01/97	pCMVSPORT 3.0	238	238	1	238	156	156	1175	1	23	24	27
229	HHEPM33	PTA-322 07/09/99	pCMVSPORT 3.0	239	1459	1	1459	269	269	1176	1	20	21	82

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
230	HHEPT60	209138 07/03/97	pCMVSPORT 3.0	240	532	21	532	245	245	1177	1	18	19	36
231	HHEPU04	203648 02/09/99	pCMVSPORT 3.0	241	1084	116	1084	259	259	1178	1	31	32	163
231	HHEPU04	203648 02/09/99	pCMVSPORT 3.0	734	1081	124	1081	267	267	1671	1	31	32	163
231	HHEPU04	203648 02/09/99	pCMVSPORT 3.0	735	720	1	720	45	45	1672	1	31	32	92
232	HHFBY53	203364 10/19/98	Uni-ZAP XR	242	870	1	870	172	172	1179	1	18	19	64
233	HHFEC49	PTA-844 10/13/99	Uni-ZAP XR	243	2263	1	2263	30	30	1180	1	24	25	184
234	HHFFJ48	209627 02/12/98	Uni-ZAP XR	244	2566	1	2566	65	65	1181	1	21	22	106
235	HHFGR93	209746 04/07/98	Uni-ZAP XR	245	1835	1	1835	132	132	1182	1	29	30	390
235	HHFGR93	209746 04/07/98	Uni-ZAP XR	736	1932	1	1836	130	130	1673	1	29	30	236
236	HHFHJ59	97975 04/04/97 209081 05/29/97	Uni-ZAP XR	246	661	1	661	192	192	1183	1	29	30	112
237	HHFHR32	97975 04/04/97 209081 05/29/97	Uni-ZAP XR	247	1378	1	1378	58	58	1184	1	25	26	235

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
238	HHFOJ29	PTA-2075 06/09/00	Uni-ZAP XR	248	1366	1	1366	117	117	1185	1	31	32	82
238	HHFOJ29	PTA-2075 06/09/00	Uni-ZAP XR	737	1595	513	1595	132	132	1674	1	19	20	95
238	HHFOJ29	PTA-2075 06/09/00	Uni-ZAP XR	738	970	272	970		62	1675	1	1	2	152
239	HHGBO91	209242 09/12/97	Lambda ZAP II	249	715	1	715	140	140	1186	1	28	29	49
240	HHGCM76	97958 03/13/97 209072 05/22/97	Lambda ZAP II	250	711	8	711	270	270	1187	1	22	23	89
240	HHGCM76	97958 03/13/97 209072 05/22/97	Lambda ZAP II	739	711	8	711	270	270	1676	1			11
241	HHGCQ54	209300 09/25/97	Lambda ZAP II	251	875	1	875	62	62	1188	1	15	16	51
242	HHGDF16	209463 11/14/97	Lambda ZAP II	252	890	215	890	253	253	1189	1	26	27	52
243	HHGDW43	209346 10/09/97	Lambda ZAP II	253	1050	1	1050	107	107	1190	1	40	41	44
244	HHPDX20	209580 01/14/98	Uni-ZAP XR	254	1161	1	1161	174	174	1191	1	30	31	66
245	HHPGO40	209878 05/18/98	Uni-ZAP XR	255	1002	1	1002	116	116	1192	1	26	27	295

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
245	HHPGO40	209878 05/18/98	Uni-ZAP XR	740	973	1	973	68	68	1677	1	37	38	302
245	HHPGO40	209878 05/18/98	Uni-ZAP XR	741	984	1	984	74	74	1678	1	37	38	224
246	HHPTJ65	209179 07/24/97	Uni-ZAP XR	256	515	1	515	247	247	1193	1	32	33	48
247	HHSDX28	209346 10/09/97	Uni-ZAP XR	257	1113	1	1113	90	90	1194	1	21	22	56
248	HILCF66	209627 02/12/98	pBluescript SK-	258	1668	740	1668	331	331	1195	1	21	22	44
249	HJACG02	209215 08/21/97	pBluescript SK-	259	575	1	575	66	66	1196	1	22	23	108
249	HJACG02	209215 08/21/97	pBluescript SK-	742	553	1	553	47	47	1679	1	23	24	108
250	HJACG30	PTA-843 10/13/99	pBluescript SK-	260	1532	1	1532	291	291	1197	1	27	28	44
250	HJACG30	PTA-843 10/13/99	pBluescript SK-	743	1614	1020	1614		50	1680	1	1	2	130
250	HJACG30	PTA-843 10/13/99	pBluescript SK-	744	1087	491	1087		350	1681	1	1	2	122
251	HJBCU04	PTA-322 07/09/99	pBluescript SK-	261	1192	1	1192	96	96	1198	1	49	50	176
252	HJBCY35	209877 05/18/98	pBluescript SK-	262	1559	93	1272	232	232	1199	1	23	24	327
253	HJMBI18	209580 01/14/98	pCMV Sport 3.0	263	1021	303	1021	574	574	1200	1	19	20	80

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
254	HJMBM38	209300 09/25/97	pCMVSPORT 3.0	264	1024	316	1023	387	387	1201	1	14	15	112
255	HJMBT65	209580 01/14/98	pCMVSPORT 3.0	265	621	79	621	341	341	1202	1	33	34	42
256	HJMBW30	209146 07/17/97	pCMVSPORT 3.0	266	884	1	874	110	110	1203	1	18	19	42
257	HJPAD75	209641 02/25/98	Uni-ZAP XR	267	1231	1	1231	60	60	1204	1	29	30	91
258	HJPCP42	PTA-843 10/13/99	Uni-ZAP XR	268	1223	1	1223		156	1205	1	20	21	223
258	HJPCP42	PTA-843 10/13/99	Uni-ZAP XR	745	1201	1	1201		134	1682	1	20	21	223
258	HJPCP42	PTA-843 10/13/99	Uni-ZAP XR	746	628	229	628		468	1683	1			8
258	HJPCP42	PTA-843 10/13/99	Uni-ZAP XR	747	425	237	348		1	1684	1	1	2	83
259	HKAAE44	209368 10/16/97	pCMVSPORT 2.0	269	1494	1	1494	113	113	1206	1	39	40	136
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	270	1216	1	1216	128	128	1207	1	29	30	293
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	748	1016	1	1016	295	295	1685	1	29	30	143
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	749	1490	1	1490	182	182	1686	1	29	30	293
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	750	1441	8	1392	184	184	1687	1	29	30	85

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	751	1516	1	1516	254	254	1688	1	29	30	293
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	752	1381	196	1381	129	129	1689	1	29	30	293
260	HKAAH36	209563 12/18/97	pCMVSPORT 2.0	753	1439	1	1439	189	189	1690	1	29	30	61
261	HKAAK02	209551 12/12/97	pCMVSPORT 2.0	271	859	1	859	97	97	1208	1	34	35	196
262	HKABI84	209603 01/29/98	pCMVSPORT 2.0	272	1238	45	1238	274	274	1209	1	16	17	47
263	HKABZ65	209683 03/20/98	pCMVSPORT 2.0	273	1189	1	1189	77	77	1210	1	17	18	243
263	HKABZ65	209683 03/20/98	pCMVSPORT 2.0	754	1191	1	1191	69	69	1691	1	17	18	243
264	HKACB56	209346 10/09/97	pCMVSPORT 2.0	274	496	1	496	27	27	1211	1	23	24	80
265	HKACD58	209346 10/09/97	pCMVSPORT 2.0	275	3153	1	3153	38	38	1212	1	25	26	301
265	HKACD58	209346 10/09/97	pCMVSPORT 2.0	755	1626	1	1626	35	35	1692	1	25	26	154
266	HKACH44	209300 09/25/97	pCMVSPORT 2.0	276	686	1	686	375	375	1213	1	25	26	44
267	HKACM93	PTA-849 10/13/99	pCMVSPORT 2.0	277	2352	1	2352	218	218	1214	1	30	31	692
267	HKACM93	PTA-849 10/13/99	pCMVSPORT 2.0	756	549	1	549	189	189	1693	1	30	31	120

Gene No.	cDNA Clone ID	ATCC Deposit No.:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
267	HKACM93	PTA-849 10/13/99	pCMVSPORT 2.0	757	1120	1	1120	314	314	1694	1	30	31	269
267	HKACM93	PTA-849 10/13/99	pCMVSPORT 2.0	758	1893	739	1893		202	1695	1	13	14	17
267	HKACM93	PTA-849 10/13/99	pCMVSPORT 2.0	759	1187	1	1187		638	1696	1	4	5	45
268	HKAEL80	209423 10/30/97	pCMVSPORT 2.0	278	1105	1	1105	398	398	1215	1	17	18	79
269	HKADEV06	209627 02/12/98	pCMVSPORT 2.0	279	2496	1	2496	501	501	1216	1	30	31	438
269	HKADEV06	209627 02/12/98	pCMVSPORT 2.0	760	2351	1	2351	197	197	1697	1	29	30	57
270	HKAFAK41	209300 09/25/97	pCMVSPORT 2.0	280	549	1	549	243	243	1217	1	30	31	43
271	HKAFT66	PTA-849 10/13/99	pCMVSPORT 2.0	281	1001	270	1001	508	508	1218	1	41	42	107
271	HKAFT66	PTA-849 10/13/99	pCMVSPORT 2.0	761	1001	270	1001	508	508	1698	1	41	42	107
271	HKAFT66	PTA-849 10/13/99	pCMVSPORT 2.0	762	669	1	669	234	234	1699	1			37
272	HKDBF34	209511 12/03/97	pCMVSPORT 1	282	1432	60	1418	69	69	1219	1	14	15	222
272	HKDBF34	209511 12/03/97	pCMVSPORT 1	763	1356	1	1356	18	18	1700	1	19	20	104
273	HKGAT94	209126 06/19/97	pSPORT1	283	1048	1	1048	449	449	1220	1	31	32	99

Gene No.	cDNA Clone ID	ATCC Deposit No.:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
273	HKGAT94	209126 06/19/97	pSport1	764	1063	1	1063		470	1701	1	20	21	94
274	HKGCO27	209853 05/07/98	pSport1	284	1021	1	1021	313	313	1221	1	26	27	93
274	HKGCO27	209853 05/07/98	pSport1	765	1311	1	1311	57	57	1702	1	26	27	47
275	HKISB57	209603 01/29/98	pBluescript	285	1492	1	1439	130	130	1222	1	19	20	95
276	HKMLK53	209511 12/03/97	pBluescript	286	1543	1	1543	20	20	1223	1	25	26	69
277	HKMLM11	209236 09/04/97	pBluescript	287	954	1	954	82	82	1224	1	20	21	130
278	HKMLP68	PTA-845 10/13/99	pBluescript	288	2784	1	2784	130	130	1225	1	24	25	80
278	HKMLP68	PTA-845 10/13/99	pBluescript	766	718	1	718	153	153	1703	1	24	25	80
278	HKMLP68	PTA-845 10/13/99	pBluescript	767	614	1	614		471	1704	1	1	2	47
279	HKMMD13	209568 01/06/98	pBluescript	289	943	1	943	342	342	1226	1	21	22	49
280	HKMND01	203069 07/27/98	pBluescript	290	887	1	887	23	23	1227	1	26	27	50
281	HL2AC08	209580 01/14/98	Uni-ZAP XR	291	1478	1	1478	64	64	1228	1	23	24	280
282	HL2AG57	209746 04/07/98	Uni-ZAP XR	292	1780	349	1780	560	560	1229	1	31	32	80

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
283	HLCND09	PTA-2076 06/09/00	Uni-ZAP XR	293	1984	1	1984	146	146	1230	1	38	39	110
283	HLCND09	PTA-2076 06/09/00	Uni-ZAP XR	768	465	1	465	38	38	1705	1	38	39	142
284	HLDBE54	209563 12/18/97	pCMVSPORT 3.0	294	1222	1	1222	155	155	1231	1	38	39	318
284	HLDBE54	209563 12/18/97	pCMVSPORT 3.0	769	1194	1	1194	130	130	1706	1	26	27	89
284	HLDBE54	209563 12/18/97	pCMVSPORT 3.0	770	2334	1874	2334	133	133	1707	1	33	34	486
285	HLDBX13	203331 10/08/98	pCMVSPORT 3.0	295	1815	1	1815	303	303	1232	1	39	40	55
286	HLDNA86	209277 09/18/97	pCMVSPORT 3.0	296	1346	1	1346	238	238	1233	1	34	35	163
286	HLDNA86	209277 09/18/97	pCMVSPORT 3.0	771	720	1	717	45	45	1708	1	31	32	92
287	HLDON23	209628 02/12/98	pCMVSPORT 3.0	297	1262	208	1256	368	368	1234	1	20	21	113
288	HLDOW79	PTA-1544 03/21/00	pCMVSPORT 3.0	298	989	1	989	43	43	1235	1	21	22	275
289	HLDQC46	PTA-1544 03/21/00	pCMVSPORT 3.0	299	632	1	632	163	163	1236	1	34	35	87
290	HLDQR62	203027 06/26/98	pCMVSPORT 3.0	300	2572	427	2572	520	520	1237	1	18	19	161
291	HLDQU79	203071 07/27/98	pCMVSPORT 3.0	301	1488	1	1488	99	99	1238	1	23	24	348

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
292	HLDRM43	209628 02/12/98	pCMVSPORT 3.0	302	609	1	609	24	24	1239	1	20	21	151
292	HLDRM43	209628 02/12/98	pCMVSPORT 3.0	772	759	1	759	164	164	1709	1	20	21	151
293	HLDRP33	209641 02/25/98	pCMVSPORT 3.0	303	612	1	612	215	215	1240	1	26	27	41
294	HLHFP03	209126 06/19/97	Uni-ZAP XR	304	613	1	613	224	224	1241	1	19	20	116
295	HLHFR58	PTA-841 10/13/99	Uni-ZAP XR	305	1015	1	1015		206	1242	1	17	18	21
295	HLHFR58	PTA-841 10/13/99	Uni-ZAP XR	773	733	1	733		205	1710	1	16	17	21
295	HLHFR58	PTA-841 10/13/99	Uni-ZAP XR	774	741	1	741		288	1711	1	1	2	67
295	HLHFR58	PTA-841 10/13/99	Uni-ZAP XR	775	951	12	675		254	1712	1	1	2	91
296	HLIBD68	203071 07/27/98	pCMVSPORT 1	306	1022	1	1022	186	186	1243	1	35	36	50
297	HLICQ90	203517 12/10/98	pCMVSPORT 1	307	1766	1	1766	249	249	1244	1	29	30	206
298	HLMBO76	209603 01/29/98	Lambda ZAP II	308	815	1	795	43	43	1245	1	43	44	107
299	HLQBE09	209243 09/12/97	Lambda ZAP II	309	633	1	633	17	17	1246	1	19	20	181
300	HLQDR48	209603 01/29/98	Lambda ZAP II	310	989	1	989	10	10	1247	1	21	22	190

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
300	HLQDR48	209603 01/29/98	Lambda ZAP II	776	990	1	990	3	3	1713	1	21	22	190
301	HLTAU74	PTA-163 06/01/99	Uni-ZAP XR	311	1524	1	1524	76	76	1248	1	21	22	62
302	HLTDV50	209243 09/12/97	Uni-ZAP XR	312	770	1	770	74	74	1249	1	17	18	28
303	HLTEI25	97979 03/27/97	Uni-ZAP XR	313	843	1	843	155	155	1250	1	19	20	42
304	HLTEJ06	209346 10/09/97	Uni-ZAP XR	314	617	69	617	197	197	1251	1	22	23	55
305	HLTFA64	209628 02/12/98	Uni-ZAP XR	315	1130	1	1130	268	268	1252	1	42	43	43
306	HLTHG37	209965 06/11/98	Uni-ZAP XR	316	3740	1908	3740	50	50	1253	1	1	2	319
306	HLTHG37	209965 06/11/98	Uni-ZAP XR	777	1932	98	1932	313	313	1714	1	35	36	42
307	HLWAA17	209626 02/12/98	pCMV/Sport 3.0	317	997	246	997	436	436	1254	1	15	16	187
308	HLWAA88	209551 12/12/97	pCMV/Sport 3.0	318	1770	1	1770	35	35	1255	1	22	23	113
308	HLWAA88	209551 12/12/97	pCMV/Sport 3.0	778	1636	1	1636	51	51	1715	1	22	23	488
309	HLWAD77	209651 03/04/98	pCMV/Sport 3.0	319	1167	304	1167	326	326	1256	1	24	25	140
310	HLWAE11	203071 07/27/98	pCMV/Sport 3.0	320	1618	1	1618	28	28	1257	1	46	47	278

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
311	HLWAO22	209511 12/03/97	pCMVSPORT 3.0	321	1338	1	1311	212	212	1258	1	21	22	354
312	HLWAY54	209651 03/04/98	pCMVSPORT 3.0	322	1892	1	1892	38	38	1259	1	25	26	338
313	HLWBH18	PTA-849 10/13/99	pCMVSPORT 3.0	323	813	1	813	107	107	1260	1	18	19	60
313	HLWBH18	PTA-849 10/13/99	pCMVSPORT 3.0	779	645	1	645	67	67	1716	1	18	19	60
314	HLWBI63	209407 10/23/97	pCMVSPORT 3.0	324	1038	1	1038	149	149	1261	1	30	31	63
315	HLWBK05	203331 10/08/98	pCMVSPORT 3.0	325	2383	157	2383	280	280	1262	1	34	35	298
316	HLWBY76	203517 12/10/98	pCMVSPORT 3.0	326	2081	1	2081	432	432	1263	1	27	28	232
317	HLWCF05	209126 06/19/97	pCMVSPORT 3.0	327	646	1	646	155	155	1264	1	36	37	58
318	HLYAC95	203071 07/27/98	pSPORT1	328	312	1	312	92	92	1265	1	16	17	46
319	HLYAF80	209126 06/19/97	pSPORT1	329	826	1	826	222	222	1266	1	24	25	47
320	HLYAN59	209346 10/09/97	pSPORT1	330	770	1	770	383	383	1267	1	40	41	77
320	HLYAN59	209346 10/09/97	pSPORT1	780	729	1	729	254	254	1717	1	39	40	54
321	HLYAP91	209346 10/09/97	pSPORT1	331	1276	1	1276	280	280	1268	1	29	30	83

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
322	HLYAZ61	209022 05/08/97	pSport1	332	1237	1	1237	190	190	1269	1	18	19	222
322	HLYAZ61	209022 05/08/97	pSport1	781	997	74	997	205	205	1718	1	18	19	215
323	HLYBD32	209407 10/23/97	pSport1	333	1045	35	1045	98	98	1270	1	23	24	70
324	HLYES38	209853 05/07/98	pSport1	334	1223	1	1223	69	69	1271	1	22	23	73
325	HMADS41	209563 12/18/97	Uni-ZAP XR	335	1267	1	1267	267	267	1272	1	21	22	88
326	HMADU73	209139 07/03/97	Uni-ZAP XR	336	3194	1	3194	491	491	1273	1	16	17	713
326	HMADU73	209139 07/03/97	Uni-ZAP XR	782	437	1	437	115	115	1719	1	15	16	77
327	HMAMI15	PTA-2075 06/09/00	Uni-ZAP XR	337	1258	1	1258	4	4	1274	1	26	27	340
327	HMAMI15	PTA-2075 06/09/00	Uni-ZAP XR	783	1084	1	1084	3	3	1720	1	26	27	306
328	HMDAE65	209243 09/12/97	Uni-ZAP XR	338	698	1	698	179	179	1275	1	17	18	77
329	HMDAM24	209226 08/28/97	Uni-ZAP XR	339	996	1	996	109	109	1276	1			20
330	HMDAQ29	209563 12/18/97	Uni-ZAP XR	340	974	1	974	180	180	1277	1	43	44	82
331	HMEAI48	203069 07/27/98	Lambda ZAP II	341	413	1	413	36	36	1278	1	29	30	88

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
331	HMEAI48	203069 07/27/98	Lambda ZAP II	784	1168	1	1168	95	95	1721	1	29	30	40
332	HMECK83	209853 05/07/98	Lambda ZAP II	342	1010	1	1010	50	50	1279	1	28	29	54
333	HMEET96	209407 10/23/97	Lambda ZAP II	343	1337	73	1200	121	121	1280	1	30	31	266
334	HMIAL37	209563 12/18/97	Uni-ZAP XR	344	1420	1	1420	49	49	1281	1	13	14	97
335	HMIAP86	209878 05/18/98	Uni-ZAP XR	345	1674	13	1674	182	182	1282	1	19	20	334
336	HMKCG09	209346 10/09/97	pSport1	346	921	60	921	221	221	1283	1	28	29	49
337	HMMAH60	209368 10/16/97	pSport1	347	822	1	822	142	142	1284	1	15	16	50
338	HMQDF12	209407 10/23/97	Uni-ZAP XR	348	706	1	627	63	63	1285	1	27	28	142
339	HMSBX80	209563 12/18/97	Uni-ZAP XR	349	1726	1	1726	169	169	1286	1	19	20	57
340	HMSFS21	209324 10/02/97	Uni-ZAP XR	350	1283	1	1283	28	28	1287	1	17	18	37
341	HMSGBI4	209423 10/30/97	Uni-ZAP XR	351	1552	1	1552	138	138	1288	1	18	19	77
342	HMSGT42	97958 03/13/97 209072 05/22/97	Uni-ZAP XR	352	1563	33	1077	40	40	1289	1	32	33	92

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
343	HMSHM14	209126 06/19/97	Uni-ZAP XR	353	756	1	756	103	103	1290	1	29	30	45
344	HMSHS36	PTA-2070 06/09/00	Uni-ZAP XR	354	1402	1	1402	134	134	1291	1	23	24	103
344	HMSHS36	PTA-2070 06/09/00	Uni-ZAP XR	785	616	30	616	162	162	1722	1	23	24	103
345	HMSJM65	209641 02/25/98	Uni-ZAP XR	355	2270	1	2231	111	111	1292	1	27	28	77
346	HMSJU68	209076 05/22/97	Uni-ZAP XR	356	1123	4	1123	272	272	1293	1	31	32	49
347	HMSKC04	203105 08/13/98	Uni-ZAP XR	357	1417	1	1417	133	133	1294	1	22	23	73
348	HMTBI36	PTA-322 07/09/99	pCMVSPORT 3.0	358	3388	1	3388	256	256	1295	1	18	19	957
348	HMTBI36	PTA-322 07/09/99	pCMVSPORT 3.0	786	3546	1	3363	255	255	1723	1	18	19	957
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	359	1965	531	1914	183	183	1296	1	16	17	221
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	787	1842	407	1783	413	413	1724	1	25	26	103
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	788	1963	530	1914	251	251	1725	1	28	29	198
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	789	1487	1	1487	62	62	1726	1	16	17	106
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	790	1653	1	1653	60	60	1727	1	15	16	68

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
349	HMUAP70	209878 05/18/98	pCMVSPORT 3.0	791	1830	407	1830	60	60	1728	1			23
350	HMVBN46	209603 01/29/98	pSport1	360	1382	1	1382	10	10	1297	1	19	20	48
351	HMWEB02	209628 02/12/98	Uni-ZAP XR	361	1755	1	1755	106	106	1298	1	23	24	91
352	HMWFO02	209324 10/02/97	Uni-ZAP XR	362	547	1	547	7	7	1299	1	37	38	68
352	HMWFO02	209324 10/02/97	Uni-ZAP XR	792	708	1	708	20	20	1729	1	38	39	60
353	HMWGY65	203105 08/13/98	Uni-ZAP XR	363	1974	1	1974	42	42	1300	1	21	22	490
353	HMWGY65	203105 08/13/98	Uni-ZAP XR	793	2027	1	1976	42	42	1730	1	21	22	188
354	HNEAC05	209236 09/04/97	Uni-ZAP XR	364	890	1	890	101	101	1301	1	24	25	105
355	HNEEB45	PTA-845 10/13/99	Uni-ZAP XR	365	1043	1	1043	139	139	1302	1	25	26	57
355	HNEEB45	PTA-845 10/13/99	Uni-ZAP XR	794	699	160	699	226	226	1731	1	25	26	57
356	HNFJC43	203027 06/26/98	Uni-ZAP XR	366	2103	209	2058	488	488	1303	1	12	13	68
357	HNFJU96	209126 06/19/97	pBluescript	367	456	1	456	170	170	1304	1	32	33	79
358	HNFJF07	209463 11/14/97	Uni-ZAP XR	368	616	1	616	86	86	1305	1	21	22	66

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
359	HNFJH45	97976 04/04/97	Uni-ZAP XR	369	575	1	575	275	275	1306	1	30	31	67
360	HNGAK47	209368 10/16/97	Uni-ZAP XR	370	1144	1	1144	89	89	1307	1	23	24	40
361	HNGAP93	209243 09/12/97	Uni-ZAP XR	371	703	1	703	50	50	1308	1	19	20	33
362	HNGBC07	PTA-844 10/13/99	Uni-ZAP XR	372	1649	1	1647	81	81	1309	1	18	19	249
362	HNGBC07	PTA-844 10/13/99	Uni-ZAP XR	795	1649	1	1647	122	122	1732	1	24	25	44
362	HNGBC07	PTA-844 10/13/99	Uni-ZAP XR	796	1570	1	1570	55	55	1733	1	24	25	44
363	HNGBT31	97976 04/04/97	Uni-ZAP XR	373	639	1	639	224	224	1310	1	28	29	104
364	HNGDG40	209299 09/25/97	Uni-ZAP XR	374	520	1	520	13	13	1311	1	36	37	127
365	HNGDJ72	209299 09/25/97	Uni-ZAP XR	375	524	1	524	185	185	1312	1	19	20	113
366	HNGDU40	209563 12/18/97	Uni-ZAP XR	376	1035	1	1035	333	333	1313	1	17	18	51
367	HNGEO29	209299 09/25/97	Uni-ZAP XR	377	491	1	491	98	98	1314	1	32	33	44
368	HNGEP09	209197 08/08/97	Uni-ZAP XR	378	1042	1	1042	72	72	1315	1	15	16	82
369	HNGHR74	209346 10/09/97	Uni-ZAP XR	379	1095	1	1095	53	53	1316	1	18	19	41

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
370	HNGIH43	97976 04/04/97	Uni-ZAP XR	380	427	1	427	178	178	1317	1	31	32	40
371	HNGIJ31	209236 09/04/97	Uni-ZAP XR	381	796	1	796	135	135	1318	1	16	17	36
372	HNGIQ46	209243 09/12/97	Uni-ZAP XR	382	527	1	527	221	221	1319	1	21	22	70
373	HNGJE50	209368 10/16/97	Uni-ZAP XR	383	1037	1	1037	77	77	1320	1	36	37	46
374	HNGJO57	209463 11/14/97	Uni-ZAP XR	384	828	1	828	87	87	1321	1	18	19	52
375	HNGJP69	209603 01/29/98	Uni-ZAP XR	385	985	1	985	321	321	1322	1	14	15	74
376	HNGJT54	209215 08/21/97	Uni-ZAP XR	386	1110	1	1110	172	172	1323	1	19	20	34
377	HNGKN89	203648 02/09/99	Uni-ZAP XR	387	925	1	925	436	436	1324	1	24	25	53
378	HNGOM56	203648 02/09/99	Uni-ZAP XR	388	956	1	956	391	391	1325	1	22	23	55
379	HNGOU56	203858 03/18/99	Uni-ZAP XR	389	742	1	742	317	317	1326	1	23	24	59
380	HNGOW62	PTA-622 09/02/99	Uni-ZAP XR	390	1298	1	1298	167	167	1327	1	19	20	54
381	HNHAH01	209180 07/24/97	Uni-ZAP XR	391	905	1	905	328	328	1328	1	41	42	54
382	HNHCX60	209243 09/12/97	Uni-ZAP XR	392	762	1	762	158	158	1329	1	20	21	21

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
383	HNHCY64	209243 09/12/97	Uni-ZAP XR	393	725	1	725	258	258	1330	1	32	33	44
384	HNHCY94	209243 09/12/97	Uni-ZAP XR	394	606	1	606	78	78	1331	1	25	26	48
385	HNHDW38	209299 09/25/97	Uni-ZAP XR	395	793	1	793	231	231	1332	1	22	23	46
386	HNHDW42	97976 04/04/97	Uni-ZAP XR	396	426	1	426	168	168	1333	1	26	27	71
387	HNHED17	209346 10/09/97	Uni-ZAP XR	397	843	1	843	274	274	1334	1	19	20	51
387	HNHED17	209346 10/09/97	Uni-ZAP XR	797	692	1	692	282	282	1734	1	19	20	48
388	HNHE142	PTA-844 10/13/99	Uni-ZAP XR	398	2642	1	2642	52	52	1335	1	22	23	36
388	HNHE142	PTA-844 10/13/99	Uni-ZAP XR	798	1654	1	1654	28	28	1735	1	22	23	36
388	HNHE142	PTA-844 10/13/99	Uni-ZAP XR	799	447	1	447		166	1736	1	6	7	28
388	HNHE142	PTA-844 10/13/99	Uni-ZAP XR	800	641	1	641		331	1737	1	3	4	34
389	HNHFO29	209138 07/03/97	Uni-ZAP XR	399	699	1	699	160	160	1336	1	21	22	180
390	HNHFR04	209683 03/20/98	Uni-ZAP XR	400	1681	1	1681	71	71	1337	1	21	22	78
391	HNHFU32	209407 10/23/97	Uni-ZAP XR	401	607	1	607	175	175	1338	1	30	31	52

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
392	HNHOD46	PTA-1543 03/21/00	Uni-ZAP XR	402	1355	1	1355	12	12	1339	1	20	21	80
393	HNHOG73	203570 01/11/99	Uni-ZAP XR	403	802	1	802	342	342	1340	1	19	20	51
394	HNHPD10	203570 01/11/99	Uni-ZAP XR	404	940	1	940	291	291	1341	1	33	34	40
395	HNTBI57	209423 10/30/97	pCMV/Sport 3.0	405	1365	134	1365	210	210	1342	1	26	27	58
396	HNTCE26	PTA-1544 03/21/00	pCMV/Sport 3.0	406	2163	830	2163	111	111	1343	1	30	31	402
396	HNTCE26	PTA-1544 03/21/00	pCMV/Sport 3.0	801	1763	1	1763	57	57	1738	1	28	29	121
397	HNTNC20	209782 04/20/98	pSport1	407	1979	1	1979	270	270	1344	1	19	20	218
398	HNTNI01	209782 04/20/98	pSport1	408	2087	1	2087	307	307	1345	1	33	34	76
398	HNTNI01	209782 04/20/98	pSport1	802	1274	1	1114	306	306	1739	1	33	34	49
399	HNTSY18	PTA-855 10/18/99	pSport1	409	1811	265	1783	257	257	1346	1	31	32	89
399	HNTSY18	PTA-855 10/18/99	pSport1	803	847	742	819		420	1740	1	1	2	79
400	HOAAC90	209236 09/04/97	Uni-ZAP XR	410	642	1	642	33	33	1347	1	15	16	104
400	HOAAC90	209236 09/04/97	Uni-ZAP XR	804	652	1	652	38	38	1741	1	15	16	104

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
401	HOACB38	209243 09/12/97	Uni-ZAP XR	411	606	1	606	63	63	1348	1	21	22	40
402	HOCNF19	203570 01/11/99	pSport1	412	1118	1	1118	166	166	1349	1	20	21	87
403	HODDF13	203069 07/27/98	Uni-ZAP XR	413	830	1	830	46	46	1350	1	23	24	41
404	HODDN65	209244 09/12/97	Uni-ZAP XR	414	755	1	755	251	251	1351	1	14	15	20
405	HODDN92	209012 04/28/97 209089 06/05/97	Uni-ZAP XR	415	1939	294	1939		434	1352	1	26	27	35
406	HODDO08	203364 10/19/98	Uni-ZAP XR	416	1776	138	1284	725	725	1353	1	33	34	106
407	HODDW40	209463 11/14/97	Uni-ZAP XR	417	682	1	682	139	139	1354	1	19	20	40
408	HODEJ32	203570 01/11/99	Uni-ZAP XR	418	739	1	739	358	358	1355	1	21	22	43
409	HODFN71	203570 01/11/99	Uni-ZAP XR	419	1126	1	1126		1	1356	1	1	2	159
409	HODFN71	203570 01/11/99	Uni-ZAP XR	805	1124	1	1124	27	27	1742	1	18	19	148
410	HODGE68	203570 01/11/99	Uni-ZAP XR	420	851	1	851	87	87	1357	1	26	27	59
411	HOEBK34	209224 08/28/97	Uni-ZAP XR	421	747	75	747	149	149	1358	1	20	21	165

Gene No.	cDNA Clone ID	ATCC Deposit No.:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
411	HOEBK34	209224 08/28/97	Uni-ZAP XR	806	660	1	660	68	68	1743	1	26	27	88
412	HOEBZ89	203517 12/10/98	Uni-ZAP XR	422	2520	1	2520	19	19	1359	1	21	22	333
413	HOEDB32	209628 02/12/98	Uni-ZAP XR	423	1462	73	1462	104	104	1360	1	21	22	226
414	HOEDE28	PTA-844 10/13/99	Uni-ZAP XR	424	1635	1	1635	248	248	1361	1	21	22	117
414	HOEDE28	PTA-844 10/13/99	Uni-ZAP XR	807	1424	806	1424		387	1744	1	11	12	20
415	HOEDH84	209965 06/11/98	Uni-ZAP XR	425	2079	1	2079	256	256	1362	1	20	21	404
416	HOEFV61	203517 12/10/98	Uni-ZAP XR	426	2657	1	2657	64	64	1363	1	13	14	180
417	HOFMQ33	PTA-848 10/13/99	pCMVSPORT 2.0	427	2410	1	2410	49	49	1364	1	24	25	484
417	HOFMQ33	PTA-848 10/13/99	pCMVSPORT 2.0	808	2409	1	2409	48	48	1745	1	24	25	484
417	HOFMQ33	PTA-848 10/13/99	pCMVSPORT 2.0	809	876	1	876	78	78	1746	1	24	25	266
417	HOFMQ33	PTA-848 10/13/99	pCMVSPORT 2.0	810	1586	1	1586		724	1747	1			5
417	HOFMQ33	PTA-848 10/13/99	pCMVSPORT 2.0	811	1011	873	1011		123	1748	1	1	2	84
418	HOFMT75	PTA-848 10/13/99	pCMVSPORT 2.0	428	2131	6	2131	83	83	1365	1	20	21	410

Gene No.	cDNA Clone ID	ATCC Deposit No.:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
418	HOFMT75	PTA-848 10/13/99	pCMVSPORT 2.0	812	427	1	427	83	83	1749	1	20	21	115
418	HOFMT75	PTA-848 10/13/99	pCMVSPORT 2.0	813	1500	1	1500		1225	1750	1	9	10	92
418	HOFMT75	PTA-848 10/13/99	pCMVSPORT 2.0	814	1234	337	1234	129	129	1751	1	20	21	368
419	HOFNC14	PTA-623 09/02/99	pCMVSPORT 2.0	429	2794	1	2794	79	79	1366	1	13	14	73
419	HOFNC14	PTA-623 09/02/99	pCMVSPORT 2.0	815	3095	1	3095	155	155	1752	1	13	14	72
420	HOFND85	PTA-1544 03/21/00	pCMVSPORT 2.0	430	2048	1	2048	167	167	1367	1	22	23	627
421	HOFNY91	PTA-1544 03/21/00	pCMVSPORT 2.0	431	2406	1	2406	64	64	1368	1	14	15	82
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	432	1669	1	1669	76	76	1369	1	21	22	363
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	816	518	1	518	81	81	1753	1	21	22	112
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	817	518	1	518	81	81	1754	1	17	18	112
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	818	1670	1	1670	76	76	1755	1	21	22	139
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	819	606	1	606		23	1756	1			7
422	HOFOC33	PTA-848 10/13/99	pCMVSPORT 2.0	820	841	1	841		158	1757	1	6	7	14

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
422	HOF0C33	PTA-848 10/13/99	pCMV/Sport 2.0	821	868	1	847		3	1758	1	1	2	288
423	HOF0C73	PTA-848 10/13/99	pCMV/Sport 2.0	433	1491	1	1491	18	18	1370	1	18	19	129
423	HOF0C73	PTA-848 10/13/99	pCMV/Sport 2.0	822	1395	1	1395	23	23	1759	1	18	19	67
423	HOF0C73	PTA-848 10/13/99	pCMV/Sport 2.0	823	270	1	270		127	1760	1	4	5	14
423	HOF0C73	PTA-848 10/13/99	pCMV/Sport 2.0	824	2324	662	2324	142	142	1761	1			6
424	HOGAW62	209463 11/14/97	pCMV/Sport 2.0	434	571	1	571	259	259	1371	1	25	26	55
425	HOGCK20	209853 05/07/98	pCMV/Sport 2.0	435	2087	1	2087	57	57	1372	1	23	24	522
425	HOGCK20	209853 05/07/98	pCMV/Sport 2.0	825	2075	1	2054		53	1762	1	22	23	554
426	HOGCK63	PTA-848 10/13/99	pCMV/Sport 2.0	436	1409	310	1409	514	514	1373	1	29	30	246
426	HOGCK63	PTA-848 10/13/99	pCMV/Sport 2.0	826	1697	144	1697		1455	1763	1			5
427	HOGCS52	PTA-848 10/13/99	pCMV/Sport 2.0	437	2571	1	2571	25	25	1374	1	22	23	453
427	HOGCS52	PTA-848 10/13/99	pCMV/Sport 2.0	827	2645	1	2586	30	30	1764	1	22	23	453
427	HOGCS52	PTA-848 10/13/99	pCMV/Sport 2.0	828	1098	457	638		2	1765	1	1	2	96

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
428	HOHBB49	203517 12/10/98	pCMVSPORT 2.0	438	3080	1	3080	148	148	1375	1	19	20	48
429	HOHBC68	209568 01/06/98	pCMVSPORT 2.0	439	1837	1	1837	348	348	1376	1	30	31	128
430	HOHBY12	209603 01/29/98	pCMVSPORT 2.0	440	1188	1	1188	232	232	1377	1	25	26	199
431	HOHBY44	PTA-867 10/26/99	pCMVSPORT 2.0	441	3369	1	3369	170	170	1378	1	24	25	184
431	HOHBY44	PTA-867 10/26/99	pCMVSPORT 2.0	829	1063	533	1063		2	1766	1	1	2	77
431	HOHBY44	PTA-867 10/26/99	pCMVSPORT 2.0	830	1178	1	1178		54	1767	1	1	2	84
432	HOHCC74	209346 10/09/97	pCMVSPORT 2.0	442	558	1	558	327	327	1379	1	20	21	48
433	HOHCH55	203331 10/08/98	pCMVSPORT 2.0	443	2499	1	2499	221	221	1380	1	23	24	494
433	HOHCH55	203331 10/08/98	pCMVSPORT 2.0	831	2522	1	2522	230	230	1768	1	23	24	469
434	HONAH29	209138 07/03/97	pBluescript SK-	444	1623	1	1623	136	136	1381	1	25	26	211
434	HONAH29	209138 07/03/97	pBluescript SK-	832	1637	17	1632	144	144	1769	1	25	26	211
435	HOSDJ25	209423 10/30/97	Uni-ZAP XR	445	2214	985	2214	1076	1076	1382	1	18	19	40
435	HOSDJ25	209423 10/30/97	Uni-ZAP XR	833	1258	1	1258	146	146	1770	1	18	19	40

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
436	HOSEG51	209324 10/02/97	Uni-ZAP XR	446	590	48	590	232	232	1383	1	31	32	102
437	HOSFD58	97957 03/13/97 209073 05/22/97	Uni-ZAP XR	447	2527	290	1747	56	56	1384	1	30	31	624
437	HOSFD58	97957 03/13/97 209073 05/22/97	Uni-ZAP XR	834	2527	288	1747	477	477	1771	1	32	33	61
438	HOUCQ17	209086 05/29/97	Uni-ZAP XR	448	4712	1	4693	508	508	1385	1	51	52	967
439	HOUDK26	209423 10/30/97	Uni-ZAP XR	449	1051	1	1051	214	214	1386	1	30	31	174
440	HOVCA92	209299 09/25/97	pSport1	450	707	1	488	181	181	1387	1	20	21	62
441	HPASA81	203181 09/09/98	Uni-ZAP XR	451	1945	1	1945	19	19	1388	1	17	18	600
441	HPASA81	203181 09/09/98	Uni-ZAP XR	835	1971	2	1971	14	14	1772	1	17	18	315
441	HPASA81	203181 09/09/98	Uni-ZAP XR	836	2081	1	2081	124	124	1773	1	17	18	72
442	HPBCU51	97977 04/04/97 209082 05/29/97	pBluescript SK-	452	599	1	599	86	86	1389	1	27	28	119

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
443	HPDDC77	209012 04/28/97 209089 06/05/97	pBluescript SK-	453	978	1	978	51	51	1390	1	29	30	131
443	HPDDC77	209012 04/28/97 209089 06/05/97	pBluescript SK-	837	2361	455	1442	510	510	1774	1	29	30	131
444	HPDWP28	PTA-2076 06/09/00	pSport1	454	528	1	528	143	143	1391	1	29	30	49
444	HPDWP28	PTA-2076 06/09/00	pSport1	838	510	1	500	133	133	1775	1	29	30	49
445	HPEAD48	209244 09/12/97	Uni-ZAP XR	455	625	1	625	203	203	1392	1	18	19	97
446	HPEBE79	209241 09/12/97	Uni-ZAP XR	456	597	1	597	79	79	1393	1	11	12	15
447	HPFCL43	209299 09/25/97	Uni-ZAP XR	457	665	1	665	21	21	1394	1	17	18	79
448	HPFDG48	209324 10/02/97	Uni-ZAP XR	458	723	165	700	283	283	1395	1	18	19	47
449	HPFAQ68	203517 12/10/98	Uni-ZAP XR	459	2466	1	2466	20	20	1396	1	22	23	62
450	HPIBO15	209563 12/18/97	Uni-ZAP XR	460	1739	1	1739	128	128	1397	1	18	19	211
450	HPIBO15	209563 12/18/97	Uni-ZAP XR	839	1739	1	1739	127	127	1776	1	18	19	173

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
451	HPICB53	PTA-846 10/13/99	Uni-ZAP XR	461	1139	1	1139	170	170	1398	1	23	24	51
451	HPICB53	PTA-846 10/13/99	Uni-ZAP XR	840	438	1	438	163	163	1777	1	23	24	51
452	HPJBK12	PTA-855 10/18/99	Uni-ZAP XR	462	2648	1	2648	126	126	1399	1	18	19	48
452	HPJBK12	PTA-855 10/18/99	Uni-ZAP XR	841	538	1	538	119	119	1778	1	18	19	48
452	HPJBK12	PTA-855 10/18/99	Uni-ZAP XR	842	1346	1	1346		969	1779	1			10
452	HPJBK12	PTA-855 10/18/99	Uni-ZAP XR	843	912	1	912	509	509	1780	1			4
453	HPJCL22	PTA-2071 06/09/00	Uni-ZAP XR	463	3107	1	3107	86	86	1400	1	35	36	80
453	HPJCL22	PTA-2071 06/09/00	Uni-ZAP XR	844	995	58	995	136	136	1781	1	35	36	80
453	HPJCL22	PTA-2071 06/09/00	Uni-ZAP XR	845	751	183	751		232	1782	1	1	2	145
454	HPJCW04	209551 12/12/97	Uni-ZAP XR	464	1466	1	1466	44	44	1401	1	19	20	57
455	HPJEX20	PTA-872 10/26/99	Uni-ZAP XR	465	566	1	566	23	23	1402	1	26	27	174
455	HPJEX20	PTA-872 10/26/99	Uni-ZAP XR	846	1823	1	1823	31	31	1783	1	23	24	115
455	HPJEX20	PTA-872 10/26/99	Uni-ZAP XR	847	1964	1	1964	170	170	1784	1	23	24	174

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
455	HPJEX20	PTA-872 10/26/99	Uni-ZAP XR	848	769	1	769	84	84	1785	1	23	24	228
455	HPJEX20	PTA-872 10/26/99	Uni-ZAP XR	849	818	1	818		565	1786	1	1	2	84
456	HPMAI22	209683 03/20/98	Uni-ZAP XR	466	1274	334	1274	483	483	1403	1	16	17	59
457	HPMFP40	209628 02/12/98	Uni-ZAP XR	467	1217	1	1217	37	37	1404	1	24	25	44
458	HPMGJ45	203105 08/13/98	Uni-ZAP XR	468	1656	1	1656	119	119	1405	1	25	26	48
459	HPQAC69	97979 03/27/97	Lambda ZAP II	469	990	1	988	82	82	1406	1	19	20	37
460	HPRBC80	209852 05/07/98	Uni-ZAP XR	470	2543	1245	2543	94	94	1407	1	30	31	387
460	HPRBC80	209852 05/07/98	Uni-ZAP XR	850	2052	275	2032	404	404	1787	1	26	27	69
461	HPRBF19	203517 12/10/98	Uni-ZAP XR	471	1461	1	1461	63	63	1408	1	31	32	190
462	HPPTG19	209628 02/12/98	Uni-ZAP XR	472	559	1	559	215	215	1409	1	16	17	49
463	HPTVX32	209628 02/12/98	pBluescript	473	803	215	803	318	318	1410	1	26	27	80
464	HPVAB94	209244 09/12/97	Uni-ZAP XR	474	819	1	819	80	80	1411	1	25	26	44
465	HPWAY46	PTA-843 10/13/99	Uni-ZAP XR	475	1414	1	1414	468	468	1412	1	30	31	52

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
465	HPWAY46	PTA-843 10/13/99	Uni-ZAP XR	851	891	1	891	474	474	1788	1	30	31	52
465	HPWAY46	PTA-843 10/13/99	Uni-ZAP XR	852	501	120	501		178	1789	1	1	2	86
466	HPWDJ42	209852 05/07/98	Uni-ZAP XR	476	1340	1	1340	149	149	1413	1	18	19	54
466	HPWDJ42	209852 05/07/98	Uni-ZAP XR	853	1340	1	1340	149	149	1790	1	21	22	54
466	HPWDJ42	209852 05/07/98	Uni-ZAP XR	854	813	1	813	161	161	1791	1	18	19	47
467	HPZAB47	209511 12/03/97	pBluescript	477	1676	1	1676	34	34	1414	1	18	19	47
468	HRAAB15	209651 03/04/98	pCMVSPORT 3.0	478	1747	1	1747	35	35	1415	1	14	15	159
469	HRABA80	209889 05/22/98	pCMVSPORT 3.0	479	1251	1	1251	144	144	1416	1	27	28	102
469	HRABA80	209889 05/22/98	pCMVSPORT 3.0	855	1237	1	1237	130	130	1792	1	27	28	102
470	HRACD15	209852 05/07/98	pCMVSPORT 3.0	480	1539	24	1539	252	252	1417	1	40	41	53
470	HRACD15	209852 05/07/98	pCMVSPORT 3.0	856	1681	24	1453	252	252	1793	1	40	41	53
471	HRACD80	209889 05/22/98	pCMVSPORT 3.0	481	1941	1	1941	196	196	1418	1	16	17	575
471	HRACD80	209889 05/22/98	pCMVSPORT 3.0	857	1934	1	1934	191	191	1794	1	16	17	575

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
471	HRACD80	209889 05/22/98	pCMVSPORT 3.0	858	1958	1	1958	191	191	1795	1	16	17	146
472	HRDDV47	209628 02/12/98	Uni-ZAP XR	482	1510	1	1510	146	146	1419	1	30	31	276
473	HRDFD27	209423 10/30/97	Uni-ZAP XR	483	805	1	805	82	82	1420	1	35	36	83
474	HROAJ03	209423 10/30/97	Uni-ZAP XR	484	1182	1	1182	19	19	1421	1	20	21	192
475	HRTAE58	209241 09/12/97	pBluescript SK-	485	600	1	600	244	244	1422	1	18	19	58
476	HSATR82	209299 09/25/97	Uni-ZAP XR	486	777	1	777	74	74	1423	1	15	16	41
477	HSAUK57	209148 07/17/97	Uni-ZAP XR	487	1037	1	1037	322	322	1424	1	26	27	83
477	HSAUK57	209148 07/17/97	Uni-ZAP XR	859	1070	1	1070	327	327	1796	1	26	27	48
478	HSAUL82	209148 07/17/97	Uni-ZAP XR	488	727	1	727	140	140	1425	1	25	26	49
479	HSAVH65	209651 03/04/98	Uni-ZAP XR	489	600	1	600	104	104	1426	1	21	22	100
480	HSAVK10	209368 10/16/97	Uni-ZAP XR	490	1242	1	1242	131	131	1427	1	32	33	40
481	HSAWD74	209126 06/19/97	Uni-ZAP XR	491	970	106	970	142	142	1428	1	26	27	142
481	HSAWD74	209126 06/19/97	Uni-ZAP XR	860	646	1	646	122	122	1797	1	29	30	45

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
482	HSAWZ41	209463 11/14/97	Uni-ZAP XR	492	1388	1	1388	98	98	1429	1	24	25	57
483	HSAXA83	209324 10/02/97	Uni-ZAP XR	493	649	1	649	92	92	1430	1	22	23	74
484	HSAYB43	209568 01/06/98	Uni-ZAP XR	494	1699	37	1699	89	89	1431	1	14	15	45
485	HSAYM40	209139 07/03/97	Uni-ZAP XR	495	433	1	433	190	190	1432	1	19	20	63
486	HSDAJ46	209746 04/07/98	Uni-ZAP XR	496	1537	92	1537	299	299	1433	1	18	19	262
487	HSDEK49	209603 01/29/98	Uni-ZAP XR	497	1782	1	1782	60	60	1434	1	19	20	399
487	HSDEK49	209603 01/29/98	Uni-ZAP XR	861	1590	96	1590	126	126	1798	1	21	22	305
488	HSDER95	209683 03/20/98	Uni-ZAP XR	498	574	1	574	72	72	1435	1	25	26	71
489	HSDEZ20	209852 05/07/98	Uni-ZAP XR	499	795	1	795	58	58	1436	1	41	42	122
489	HSDEZ20	209852 05/07/98	Uni-ZAP XR	862	1540	1	1540	66	66	1799	1	41	42	97
490	HSDFW45	209551 12/12/97	Uni-ZAP XR	500	1742	1	1742	118	118	1437	1	19	20	70
491	HSDJA15	203081 07/30/98	Uni-ZAP XR	501	1443	1	1443	247	247	1438	1	20	21	152
492	HSDJJ82	209126 06/19/97	Uni-ZAP XR	502	462	1	462	79	79	1439	1	32	33	52

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
493	HSDJL42	PTA-884 10/28/99	Uni-ZAP XR	503	2541	1	2523	84	84	1440	1	33	34	217
493	HSDJL42	PTA-884 10/28/99	Uni-ZAP XR	863	2467	1	2467	27	27	1800	1	35	36	219
493	HSDJL42	PTA-884 10/28/99	Uni-ZAP XR	864	2541	1	2523	78	78	1801	1	35	36	219
494	HSDJM31	209148 07/17/97	Uni-ZAP XR	504	561	1	561	351	351	1441	1	25	26	40
495	HSDSB09	209145 07/17/97	pBluescript	505	809	1	809	16	16	1442	1	17	18	135
495	HSDSB09	209145 07/17/97	pBluescript	865	819	1	819	22	22	1802	1	17	18	121
496	HSDSE75	209324 10/02/97	pBluescript	506	1151	1	1151	160	160	1443	1	18	19	181
497	HSDZR57	209641 02/25/98	pBluescript	507	308	1	308	27	27	1444	1	27	28	61
498	HSHAX21	209853 05/07/98	Uni-ZAP XR	508	1986	1	1986	177	177	1445	1	13	14	72
499	HSIAS17	209226 08/28/97	Uni-ZAP XR	509	1781	1	1781	431	431	1446	1	22	23	257
499	HSIAS17	209226 08/28/97	Uni-ZAP XR	866	1448	1	1224	108	108	1803	1	23	24	218
500	HSICV24	209580 01/14/98	Uni-ZAP XR	510	1410	1	1410	117	117	1447	1	16	17	256
500	HSICV24	209580 01/14/98	Uni-ZAP XR	867	1450	1	1450	150	150	1804	1	15	16	58

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
501	HSIDJ81	209551 12/12/97	Uni-ZAP XR	511	1303	1	1303	8	8	1448	1	22	23	58
502	HSIDX71	PTA-843 10/13/99	Uni-ZAP XR	512	2118	1	2118	200	200	1449	1	41	42	59
502	HSIDX71	PTA-843 10/13/99	Uni-ZAP XR	868	1868	1	1868	200	200	1805	1	41	42	59
503	HSJBQ79	97924 03/07/97	Uni-ZAP XR	513	587	1	587	41	41	1450	1	23	24	182
503	HSJBQ79	97924 03/07/97	Uni-ZAP XR	869	1507	164	608	57	57	1806	1	19	20	327
503	HSJBQ79	97924 03/07/97	Uni-ZAP XR	870	586	4	586	35	35	1807	1	23	24	184
504	HSKCP69	209009 04/28/97	Uni-ZAP XR	514	1251	219	1120	49	49	1451	1	27	28	286
504	HSKCP69	209009 04/28/97	Uni-ZAP XR	871	1250	223	1250	393	393	1808	1	31	32	171
505	HSKDA27	PTA-322 07/09/99	Uni-ZAP XR	515	4412	1	4412	786	786	1452	1	24	25	950
505	HSKDA27	PTA-322 07/09/99	Uni-ZAP XR	872	1792	134	1792	127	127	1809	1	21	22	509
505	HSKDA27	PTA-322 07/09/99	Uni-ZAP XR	873	1673	1	1673	12	12	1810	1	21	22	554
506	HSKHZ81	209346 10/09/97	pBluescript	516	969	1	969	64	64	1453	1	27	28	247
506	HSKHZ81	209346 10/09/97	pBluescript	874	988	1	967	57	57	1811	1	27	28	247

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO-Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
507	HSKNB56	209346 10/09/97	pBluescript	517	1334	449	1334	484	484	1454	1	25	26	85
508	HSLCQ82	209551 12/12/97	Uni-ZAP XR	518	1476	1	1476	226	226	1455	1	28	29	84
508	HSLCQ82	209551 12/12/97	Uni-ZAP XR	875	1501	1	1501	233	233	1812	1	22	23	57
509	HSLJG37	PTA-855 10/18/99	Uni-ZAP XR	519	2126	1	2126	114	114	1456	1	16	17	42
509	HSLJG37	PTA-855 10/18/99	Uni-ZAP XR	876	1083	1	1083	206	206	1813	1	16	17	42
509	HSLJG37	PTA-855 10/18/99	Uni-ZAP XR	877	1904	1	1904		1331	1814	1			6
510	HSODE04	PTA-855 10/18/99	Uni-ZAP XR	520	1370	1	1370	202	202	1457	1	20	21	41
510	HSODE04	PTA-855 10/18/99	Uni-ZAP XR	878	1937	1	1937	300	300	1815	1	20	21	41
511	HSPBF70	203105 08/13/98	pSport1	521	1397	288	1397	429	429	1458	1	19	20	97
512	HSQEO84	97974 04/04/97 209080 05/29/97	Uni-ZAP XR	522	931	1	931	87	87	1459	1	20	21	218
512	HSQEO84	97974 04/04/97 209080 05/29/97	Uni-ZAP XR	879	971	13	971	91	91	1816	1	19	20	218

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
512	HSQEO84	97974 04/04/97 209080 05/29/97	Uni-ZAP XR	880	968	8	968	86	86	1817	1	20	21	56
513	HSSAJ29	209626 02/12/98	Uni-ZAP XR	523	1044	1	1044	103	103	1460	1	25	26	47
514	HSSDX51	209683 03/20/98	Uni-ZAP XR	524	1143	1	1143	133	133	1461	1	20	21	50
515	HSSFT08	209551 12/12/97	Uni-ZAP XR	525	791	1	791	125	125	1462	1	34	35	58
516	HSSGD52	PTA-1543 03/21/00	Uni-ZAP XR	526	2425	1	2425	344	344	1463	1	32	33	606
516	HSSGD52	PTA-1543 03/21/00	Uni-ZAP XR	881	2460	105	2460	338	338	1818	1	27	28	606
517	HSSGG82	209580 01/14/98	Uni-ZAP XR	527	1543	186	1543	203	203	1464	1	17	18	62
518	HSSJC35	209853 05/07/98	Uni-ZAP XR	528	1174	1	1174	62	62	1465	1	28	29	295
518	HSSJC35	209853 05/07/98	Uni-ZAP XR	882	1163	1	1163	55	55	1819	1	30	31	295
518	HSSJC35	209853 05/07/98	Uni-ZAP XR	883	1183	1	1183	66	66	1820	1	30	31	37
519	HSTBJ86	203027 06/26/98	Uni-ZAP XR	529	1766	1	1766	120	120	1466	1	24	25	83

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
520	HSUBW09	209007 04/28/97 209083 05/29/97	Uni-ZAP XR	530	1021	1	1021	153	153	1467	1	31	32	56
521	HSVAM10	209244 09/12/97	Uni-ZAP XR	531	433	1	433	46	46	1468	1	27	28	51
522	HSVAT68	209641 02/25/98	Uni-ZAP XR	532	1155	1	1155	63	63	1469	1	25	26	88
523	HSVBU91	209603 01/29/98	Uni-ZAP XR	533	727	1	727	256	256	1470	1	18	19	90
524	HSXCG83	203570 01/11/99	Uni-ZAP XR	534	2112	233	1573	101	101	1471	1	45	46	267
524	HSXCG83	203570 01/11/99	Uni-ZAP XR	884	1938	58	1399	211	211	1821	1	22	23	172
525	HSXEQ06	PTA-847 10/13/99	Uni-ZAP XR	535	1598	1	1598	123	123	1472	1	24	25	60
525	HSXEQ06	PTA-847 10/13/99	Uni-ZAP XR	885	768	21	768	136	136	1822	1	24	25	60
525	HSXEQ06	PTA-847 10/13/99	Uni-ZAP XR	886	1392	1	1392		1271	1823	1	9	10	17
526	HSXGI47	PTA-499 08/11/99	Uni-ZAP XR	536	1256	1	1256	87	87	1473	1	21	22	57
527	HSYAV50	PTA-1544 03/21/00	pCMVSPORT 3.0	537	2801	1	2801	155	155	1474	1	23	24	672
528	HSYAV66	209746 04/07/98	pCMVSPORT 3.0	538	1407	1	1407	186	186	1475	1	28	29	69

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
529	HSYAZ50	PTA-849 10/13/99	pCMVSPORT 3.0	539	1097	1	1097	131	131	1476	1	18	19	56
529	HSYAZ50	PTA-849 10/13/99	pCMVSPORT 3.0	887	768	226	768	345	345	1824	1	18	19	56
529	HSYAZ50	PTA-849 10/13/99	pCMVSPORT 3.0	888	2087	770	875		723	1825	1	1	2	106
529	HSYAZ50	PTA-849 10/13/99	pCMVSPORT 3.0	889	2096	1767	2050		2	1826	1	1	2	279
530	HSYAZ63	PTA-163 06/01/99	pCMVSPORT 3.0	540	3466	1655	3347	448	448	1477	1	30	31	434
530	HSYAZ63	PTA-163 06/01/99	pCMVSPORT 3.0	890	1707	1	1707	215	215	1827	1	21	22	40
531	HSYBG37	209463 11/14/97	pCMVSPORT 3.0	541	1238	1	1238	47	47	1478	1	24	25	305
531	HSYBG37	209463 11/14/97	pCMVSPORT 3.0	891	1239	1	1239	48	48	1828	1	24	25	305
532	HSZAF47	209124 06/19/97	Uni-ZAP XR	542	1304	1	1304	106	106	1479	1	16	17	289
532	HSZAF47	209124 06/19/97	Uni-ZAP XR	892	1333	2	1333	107	107	1829	1	18	19	127
533	HT3SF53	PTA-499 08/11/99	Uni-ZAP XR	543	1926	1	1926	184	184	1480	1	27	28	68
534	HT5GJ57	209889 05/22/98	Uni-ZAP XR	544	1773	1	1773	105	105	1481	1	25	26	243
534	HT5GJ57	209889 05/22/98	Uni-ZAP XR	893	1797	92	1797	122	122	1830	1	25	26	190

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
535	HTADW91	PTA-1543 03/21/00	Uni-ZAP XR	545	1481	54	1481	59	59	1482	1	32	33	364
536	HTADX17	209124 06/19/97	Uni-ZAP XR	546	1147	0	1148	92	92	1483	1	23	24	142
536	HTADX17	209124 06/19/97	Uni-ZAP XR	894	1140	22	1140	84	84	1831	1	19	20	142
537	HTAEE28	PTA-843 10/13/99	Uni-ZAP XR	547	1341	1	1341	319	319	1484	1	33	34	282
537	HTAEE28	PTA-843 10/13/99	Uni-ZAP XR	895	738	159	738	372	372	1832	1	33	34	122
537	HTAEE28	PTA-843 10/13/99	Uni-ZAP XR	896	935	1	807		124	1833	1	1	2	216
538	HTDAF28	97974 04/04/97 209080 05/29/97	pSport1	548	912	1	912	38	38	1485	1	22	23	87
539	HTEAF65	PTA-322 07/09/99	Uni-ZAP XR	549	563	1	563	135	135	1486	1	19	20	75
540	HTEBI28	209177 07/24/97	Uni-ZAP XR	550	413	1	413	43	43	1487	1	20	21	67
541	HTEDF80	209511 12/03/97	Uni-ZAP XR	551	1306	1	1306	696	696	1488	1	21	22	126
542	HTEDY42	209241 09/12/97	Uni-ZAP XR	552	754	1	754	19	19	1489	1	23	24	233
542	HTEDY42	209241 09/12/97	Uni-ZAP XR	897	810	1	810	19	19	1834	1	23	24	77

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
543	HTEFU65	209324 10/02/97	Uni-ZAP XR	553	1028	1	1028	231	231	1490	1	24	25	46
544	HTEGA76	97958 03/13/97 209072 05/22/97	Uni-ZAP XR	554	450	1	450	90	90	1491	1	43	44	65
545	HTEGI42	PTA-842 10/13/99	Uni-ZAP XR	555	978	1	978	26	26	1492	1	19	20	257
545	HTEGI42	PTA-842 10/13/99	Uni-ZAP XR	898	1092	1	1092	145	145	1835	1	19	20	257
545	HTEGI42	PTA-842 10/13/99	Uni-ZAP XR	899	284	1	133		1	1836	1	1	2	94
545	HTEGI42	PTA-842 10/13/99	Uni-ZAP XR	900	1494	754	937		1081	1837	1	1	2	82
545	HTEGI42	PTA-842 10/13/99	Uni-ZAP XR	901	1014	1	806		670	1838	1	1	2	60
546	HTEHR24	209224 08/28/97	Uni-ZAP XR	556	1075	50	1075	84	84	1493	1	29	30	163
546	HTEHR24	209224 08/28/97	Uni-ZAP XR	902	1038	1	1038	41	41	1839	1	28	29	124
547	HTEHU93	209090 06/05/97	Uni-ZAP XR	557	738	1	738	188	188	1494	1	24	25	142
547	HTEHU93	209090 06/05/97	Uni-ZAP XR	903	745	1	745	187	187	1840	1	24	25	113
548	HTEIP36	209244 09/12/97	Uni-ZAP XR	558	752	1	752	22	22	1495	1	19	20	58

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
549	HTEIV80	209511 12/03/97	Uni-ZAP XR	559	1748	1	1748	203	203	1496	1	14	15	47
550	HTEJN13	97958 03/13/97 209072 05/22/97	Uni-ZAP XR	560	1094	1	1094	156	156	1497	1	15	16	208
550	HTEJN13	97958 03/13/97 209072 05/22/97	Uni-ZAP XR	904	1147	1	1147	163	163	1841	1	15	16	159
550	HTEJN13	97958 03/13/97 209072 05/22/97	Uni-ZAP XR	905	1134	1	1134	155	155	1842	1	19	20	71
551	HTELM16	203648 02/09/99	Uni-ZAP XR	561	531	1	531	121	121	1498	1	21	22	84
552	HTEPG70	203570 01/11/99	Uni-ZAP XR	562	813	1	813	365	365	1499	1	27	28	89
553	HTGAU75	209563 12/18/97	Uni-ZAP XR	563	1713	1	1713	149	149	1500	1	33	34	142
554	HTGEP89	97977 04/04/97 209082 05/29/97	Uni-ZAP XR	564	703	1	703	285	285	1501	1	29	30	94
555	HTHBG43	PTA-843 10/13/99	Uni-ZAP XR	565	848	1	848	47	47	1502	1			39

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
555	HTHBG43	PTA-843 10/13/99	Uni-ZAP XR	906	632	103	632	149	149	1843	1			39
556	HTHCA18	PTA-844 10/13/99	Uni-ZAP XR	566	1818	1	1818	231	231	1503	1	15	16	38
556	HTHCA18	PTA-844 10/13/99	Uni-ZAP XR	907	2036	1	2036	224	224	1844	1	15	16	38
557	HTHDI94	209746 04/07/98	Uni-ZAP XR	567	1632	20	1632	66	66	1504	1	26	27	292
558	HTHDS25	203071 07/27/98	Uni-ZAP XR	568	1061	1	1061	70	70	1505	1	15	16	90
559	HTJMA95	209853 05/07/98	pCMVSPORT 2.0	569	1650	198	1569	527	527	1506	1	22	23	181
560	HTJML75	PTA-868 10/26/99	pCMVSPORT 2.0	570	2762	1	2762	30	30	1507	1	1	2	822
560	HTJML75	PTA-868 10/26/99	pCMVSPORT 2.0	908	2694	21	2694		335	1845	1	20	21	64
561	HTLAA40	209241 09/12/97	Uni-ZAP XR	571	956	1	956	33	33	1508	1	28	29	71
562	HTLBE23	PTA-842 10/13/99	Uni-ZAP XR	572	1216	1	1216	129	129	1509	1	17	18	45
562	HTLBE23	PTA-842 10/13/99	Uni-ZAP XR	909	810	286	810		205	1846	1			5
563	HTLEP53	209641 02/25/98	Uni-ZAP XR	573	818	1	818	73	73	1510	1	43	44	101
564	HTLFE42	209138 07/03/97	Uni-ZAP XR	574	712	1	712	116	116	1511	1	22	23	77

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
565	HTLFE57	PTA-1543 03/21/00	Uni-ZAP XR	575	2248	1	2248	124	124	1512	1	17	18	188
565	HTLFE57	PTA-1543 03/21/00	Uni-ZAP XR	910	2298	1157	2214	189	189	1847	1	18	19	170
565	HTLFE57	PTA-1543 03/21/00	Uni-ZAP XR	911	928	1	928	110	110	1848	1	18	19	170
566	HTLGE31	PTA-2081 06/09/00	Uni-ZAP XR	576	534	1	534	51	51	1513	1	17	18	86
567	HTLHY14	203648 02/09/99	Uni-ZAP XR	577	1032	1	1032	36	36	1514	1	17	18	246
568	HTLIT32	203570 01/11/99	Uni-ZAP XR	578	1074	164	897	288	288	1515	1	26	27	246
569	HTLIV19	PTA-2081 06/09/00	Uni-ZAP XR	579	978	1	978	110	110	1516	1	33	34	84
570	HTNBO91	209241 09/12/97	pBluescript SK-	580	300	1	300	7	7	1517	1	26	27	40
571	HTOAK16	209368 10/16/97	Uni-ZAP XR	581	1466	1	1466	87	87	1518	1	18	19	110
572	HTODK73	209244 09/12/97	Uni-ZAP XR	582	1019	4	1019	43	43	1519	1	23	24	59
573	HTODO72	209299 09/25/97	Uni-ZAP XR	583	973	1	973	183	183	1520	1	16	17	24
574	HTOGR42	209603 01/29/98	Uni-ZAP XR	584	1430	1	1430	14	14	1521	1	18	19	56
574	HTOGR42	209603 01/29/98	Uni-ZAP XR	912	1433	1	1433	13	13	1849	1	18	19	60

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
575	HTOHM15	PTA-843 10/13/99	Uni-ZAP XR	585	1949	1	1949	30	30	1522	1	20	21	61
575	HTOHM15	PTA-843 10/13/99	Uni-ZAP XR	913	408	1	408	23	23	1850	1	20	21	61
575	HTOHM15	PTA-843 10/13/99	Uni-ZAP XR	914	1299	982	1274		71	1851	1	1	2	322
575	HTOHM15	PTA-843 10/13/99	Uni-ZAP XR	915	1669	1	1622		1555	1852	1	9	10	13
576	HTOHT18	209745 04/07/98	Uni-ZAP XR	586	1499	267	1499	433	433	1523	1	24	25	53
577	HTOIY21	209852 05/07/98	Uni-ZAP XR	587	1558	1	1558	91	91	1524	1	14	15	231
578	HTOIZ02	PTA-843 10/13/99	Uni-ZAP XR	588	549	1	549	243	243	1525	1	16	17	50
578	HTOIZ02	PTA-843 10/13/99	Uni-ZAP XR	916	1369	746	1345		2	1853	1	1	2	240
579	HTOIA73	203105 08/13/98	Uni-ZAP XR	589	1294	1	1294	100	100	1526	1	21	22	41
580	HTOIK60	209324 10/02/97	Uni-ZAP XR	590	904	1	904	217	217	1527	1	18	19	32
581	HTPBW79	209511 12/03/97	Uni-ZAP XR	591	1374	1	1374	178	178	1528	1	22	23	362
581	HTPBW79	209511 12/03/97	Uni-ZAP XR	917	1515	118	1507	302	302	1854	1	24	25	362
581	HTPBW79	209511 12/03/97	Uni-ZAP XR	918	1404	1	1404	92	92	1855	1	22	23	415

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
582	HTSEW17	209138 07/03/97	pBluescript	592	652	1	652	170	170	1529	1	34	35	37
583	HTTDB46	203484 11/17/98	Uni-ZAP XR	593	3059	1	3059	55	55	1530	1	17	18	318
583	HTTDB46	203484 11/17/98	Uni-ZAP XR	919	2008	215	2008	153	153	1856	1	17	18	461
584	HTWCT03	209086 05/29/97	pSport1	594	1963	1	1963	334	334	1531	1	26	27	101
585	HTWDF76	209852 05/07/98	pSport1	595	963	1	963	316	316	1532	1	24	25	85
586	HTXAJ12	209423 10/30/97	Uni-ZAP XR	596	675	1	675	91	91	1533	1	18	19	111
586	HTXAJ12	209423 10/30/97	Uni-ZAP XR	920	675	1	675	91	91	1857	1	18	19	111
587	HTXCV12	209423 10/30/97	Uni-ZAP XR	597	1134	1	1134	175	175	1534	1	27	28	102
587	HTXCV12	209423 10/30/97	Uni-ZAP XR	921	1162	1	1162	183	183	1858	1	27	28	91
588	HTXDW56	209746 04/07/98	Uni-ZAP XR	598	1583	1	1583	217	217	1535	1	21	22	201
589	HTXFL30	209603 01/29/98	Uni-ZAP XR	599	1991	1	1991	30	30	1536	1	39	40	102
590	HTXKF95	PTA-622 09/02/99	Uni-ZAP XR	600	975	170	966	421	421	1537	1	28	29	78
590	HTXKF95	PTA-622 09/02/99	Uni-ZAP XR	922	884	79	875	330	330	1859	1	28	29	78

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
591	HTXKP61	203364 10/19/98	Uni-ZAP XR	601	1209	1	1209	169	169	1538	1	33	34	42
592	HUDBZ89	209407 10/23/97	ZAP Express	602	2135	1	2135	1085	1085	1539	1	17	18	73
592	HUDBZ89	209407 10/23/97	ZAP Express	923	1265	1	1265	197	197	1860	1	17	18	54
593	HUFBY15	PTA-1543 03/21/00	pSport1	603	1193	1	1193	49	49	1540	1	26	27	159
593	HUFBY15	PTA-1543 03/21/00	pSport1	924	1012	1	1012	74	74	1861	1	26	27	145
594	HUFEF62	209852 05/07/98	pSport1	604	518	1	518	190	190	1541	1	28	29	68
594	HUFEF62	209852 05/07/98	pSport1	925	539	1	539	182	182	1862	1	28	29	68
595	HUKAH51	209568 01/06/98	Lambda ZAP II	605	853	1	853	286	286	1542	1	20	21	151
595	HUKAH51	209568 01/06/98	Lambda ZAP II	926	754	1	754	144	144	1863	1	22	23	142
595	HUKAH51	209568 01/06/98	Lambda ZAP II	927	667	1	667	55	55	1864	1	22	23	119
596	HUKBT29	209746 04/07/98	Lambda ZAP II	606	1757	56	1757	74	74	1543	1	19	20	506
597	HUSIG64	209423 10/30/97	pSport1	607	1010	1	1010	9	9	1544	1	21	22	334
598	HUSXS50	209651 03/04/98	pSport1	608	2561	1	2561	280	280	1545	1	19	20	522

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
598	HUSXS50	209651 03/04/98	pSport1	928	2025	1098	1997	281	281	1865	1	30	31	462
598	HUSXS50	209651 03/04/98	pSport1	929	1020	1	1020	179	179	1866	1	23	24	174
599	HVARW53	PTA-2076 06/09/00	pSport1	609	1015	1	1015	111	111	1546	1	34	35	186
599	HVARW53	PTA-2076 06/09/00	pSport1	930	1006	1	1006	96	96	1867	1	34	35	164
600	HWAAD63	203570 01/11/99	pCMVSPORT 3.0	610	3308	1	3308	322	322	1547	1	30	31	168
600	HWAAD63	203570 01/11/99	pCMVSPORT 3.0	931	3306	1	3306	322	322	1868	1	30	31	53
600	HWAAD63	203570 01/11/99	pCMVSPORT 3.0	932	2194	1	2194	312	312	1869	1	30	31	169
601	HWABA81	209463 11/14/97	pCMVSPORT 3.0	611	866	1	866	57	57	1548	1	21	22	48
602	HWABY10	203071 07/27/98	pCMVSPORT 3.0	612	2950	78	2914	263	263	1549	1	22	23	168
603	HWADJ89	PTA-1543 03/21/00	pCMVSPORT 3.0	613	1769	529	1769	581	581	1550	1	1	2	43
604	HWBAO62	209603 01/29/98	pCMVSPORT 3.0	614	1903	1	1903	52	52	1551	1	30	31	212
604	HWBAO62	209603 01/29/98	pCMVSPORT 3.0	933	1940	1	1940	81	81	1870	1	30	31	101
605	HWBAR88	PTA-867 10/26/99	pCMVSPORT 3.0	615	1051	1	1051	156	156	1552	1	18	19	75

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
606	HWBCB89	PTA-499 08/11/99	pCMVSPORT 3.0	616	1317	3	1317	37	37	1553	1	19	20	187
606	HWBCB89	PTA-499 08/11/99	pCMVSPORT 3.0	934	1315	1	1315	35	35	1871	1	19	20	187
607	HWBCP79	209641 02/25/98	pCMVSPORT 3.0	617	1138	1	1138	243	243	1554	1	21	22	105
607	HWBCP79	209641 02/25/98	pCMVSPORT 3.0	935	1138	1	1138	233	233	1872	1	21	22	105
608	HWBDP28	209641 02/25/98	pCMVSPORT 3.0	618	1841	1	1841	1342	1342	1555	1	25	26	67
608	HWBDP28	209641 02/25/98	pCMVSPORT 3.0	936	314	1	314	132	132	1873	1	25	26	61
609	HWBFE57	PTA-868 10/26/99	pCMVSPORT 3.0	619	1133	36	1133	227	227	1556	1	36	37	302
609	HWBFE57	PTA-868 10/26/99	pCMVSPORT 3.0	937	5811	3302	5811		3300	1874	1	16	17	37
609	HWBFE57	PTA-868 10/26/99	pCMVSPORT 3.0	938	1012	1	1012		622	1875	1	10	11	16
610	HWDAC39	209641 02/25/98	pCMVSPORT 3.0	620	753	1	753	96	96	1557	1	20	21	110
610	HWDAC39	209641 02/25/98	pCMVSPORT 3.0	939	734	1	734	85	85	1876	1	20	21	117
611	HWDHAH38	PTA-868 10/26/99	pCMVSPORT 3.0	621	1604	1	1604	255	255	1558	1	20	21	40
611	HWDHAH38	PTA-868 10/26/99	pCMVSPORT 3.0	940	796	1	796	319	319	1877	1	20	21	40

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
612	HWHGP71	203858 03/18/99	pCMVSPORT 3.0	622	1021	1	1021	389	389	1559	1	51	52	211
612	HWHGP71	203858 03/18/99	pCMVSPORT 3.0	941	1037	1	1037	394	394	1878	1	18	19	77
613	HWHGQ49	209641 02/25/98	pCMVSPORT 3.0	623	985	1	985	511	511	1560	1	17	18	90
613	HWHGQ49	209641 02/25/98	pCMVSPORT 3.0	942	1410	33	1410	306	306	1879	1	22	23	150
614	HWHGU54	209782 04/20/98	pCMVSPORT 3.0	624	1445	1	1445	145	145	1561	1	19	20	414
615	HWHGZ51	PTA-499 08/11/99	pCMVSPORT 3.0	625	1699	1	1699	33	33	1562	1	30	31	346
616	HWHHL34	203181 09/09/98	pCMVSPORT 3.0	626	1529	95	1529	131	131	1563	1	30	31	188
616	HWHHL34	203181 09/09/98	pCMVSPORT 3.0	943	1796	1	1796	209	209	1880	1	31	32	102
616	HWHHL34	203181 09/09/98	pCMVSPORT 3.0	944	2136	1	2136	101	101	1881	1	30	31	188
617	HWLEV32	PTA-884 10/28/99	pSport1	627	1218	1	1218	39	39	1564	1	18	19	45
617	HWLEV32	PTA-884 10/28/99	pSport1	945	1203	1	1203	29	29	1882	1	18	19	45
617	HWLEV32	PTA-884 10/28/99	pSport1	946	1144	528	596		3	1883	1	1	2	136
617	HWLEV32	PTA-884 10/28/99	pSport1	947	1120	791	851		1	1884	1	1	2	141

Gene No.	cDNA Clone ID	ATCC Deposit No:Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO:Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
618	HWLIH65	203081 07/30/98	pSport1	628	831	1	831	129	129	1565	1	18	19	165
619	HWTBK81	209138 07/03/97	Uni-ZAP XR	629	637	78	635	139	139	1566	1	23	24	155
620	HYAAJ71	203517 12/10/98	pCMVSPORT 3.0	630	3337	1	3337	190	190	1567	1	31	32	62
621	HUSBA88	PTA-623 09/02/99	Lambda ZAP II	631	2733	27	2733	270	270	1569	1	15	16	615

Table 1B (Comprised of Tables 1B.1 and 1B.2)

The first column in Table 1B.1 and Table 1B.2 provides the gene number in the application corresponding to the clone identifier. The second column in Table 1B.1 and Table 1B.2 provides a unique "Clone ID:" for the cDNA clone related to each contig sequence disclosed in Table 1B.1 and Table 1B.2. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X as determined by directly sequencing the referenced clone. The referenced clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods described elsewhere herein. The third column in Table 1B.1 and Table 1B.2 provides a unique "Contig ID" identification for each contig sequence. The fourth column in Table 1B.1 and Table 1B.2 provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1B.

Table 1B.1

The fifth column in Table 1B.1, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1B.1, column 6, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence. The sixth column in Table 1B.1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto. Column 7 in Table 1B.1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1B. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

Column 8 in Table 1B.1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to

EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

A modified version of the computer program BLASTN (Altshul, et al., J. Mol. Biol. 215:403-410 (1990), and Gish, and States, Nat. Genet. 3:266-272) (1993) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1B under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000;. If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1B.1, labelled "OMIM Disease Reference(s). Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

Table 1B.2

Column 5, in Table 1B.2, provides an expression profile and library code:count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1B, which can routinely be combined with the information provided in Table 4 and used to determine the tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in Table 1B.2, column 5 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. The second number in column 5 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the corresponding tissue/cell source. Those tissue/cell source identifier codes in

which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo (dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

Table 1B.1

Gene No:	cDNA Clone ID	Contig ID:	SEQ ID NO:	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Cytologic Band	OMIM Disease Reference(s):
1	H2CBG48	745365	11	125 - 262	948		6q14	136550, 203310, 269920, 602772
2	H2MAC30	544957	12	157 - 375	949	Pro-54 to Gly-67.		
3	H6EAB28	1352227	13	115 - 414	950	Ser-39 to Gly-46, Leu-49 to Ala-62, Lys-79 to Ala-93, Gly-95 to Thr-100.	7p22	600259, 600259
	H6EAB28	589947	631	116 - 346	1568	Ala-29 to Thr-37, Pro-39 to Leu-63.		
4	H6EDF66	520498	14	146 - 538	951			
5	HABAG37	637942	15	97 - 285	952	Thr-24 to Gly-42, Glu-53 to Gly-58.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
6	HACBD91	637482	16	117 - 266	953		3q13.33	600882
7	HACCI17	891114	17	461 - 1114	954	Ser-201 to Tyr-217.	22q11.21	123620, 151410, 600850
	HACCI17	731877	632	135 - 353	1569			
8	HADAO89	570689	18	244 - 378	955	Arg-28 to Asn-33.		
9	HAGAI85	381942	19	166 - 255	956	Ser-24 to Trp-30.	9q31-q32	109400, 132800, 132800, 134400, 186855, 223900, 253800, 253800, 278700, 602088
10	HAGAM64	626997	20	57 - 191	957	Arg-30 to Tyr-39.		
11	HAGAN21	1026956	21	34 - 309	958	Pro-56 to Leu-62, Pro-86 to Asp-91.	18,4,9	
	HAGAN21	864914	633	335 - 610	1570			
	HAGAN21	902027	634	452 - 466	1571			
	HAGAN21	902026	635	146 - 187	1572			
	HAGAN21	902025	636	321 - 341	1573			
12	HAGBZ81	456414	22	65 - 214	959	Ile-40 to Lys-45.	8q12.1	
13	HAGDG59	534165	23	124 - 1026	960	Lys-29 to Val-34, Cys-94 to Asp-99.	4	

						Ser-102 to Val-107, Gln-133 to Lys-139.			
14	HAGDI35	597444	24	318 - 596	961	Ser-36 to Gly-41, Pro-43 to Ser-49.	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965	
15	HAGFG51	823509	25	163 - 294	962	Cys-36 to Gly-43.			
16	HAGFI62	704425	26	429 - 704	963	Gly-49 to Ser-54, Lys-61 to Arg-68.			
17	HAGFY16	778820	27	251 - 844	964		5q31.3	131400, 159000, 180071, 181460, 272750, 600807, 601596, 602089	
	HAGFY16	381964	637	128 - 262	1574				
18	HAHDB16	635412	28	93 - 245	965				
19	HAHDR32	635357	29	435 - 980	966	Met-1 to Ser-7, Asp-41 to Met-48, Pro-61 to Ser-67, Pro-121 to Trp-130, His-161 to Lys-181.	3p14.3- p14.1	150250, 156845, 156845, 156845, 164500, 277730, 600971, 601226	
20	HAIBO71	490848	30	325 - 525	967				
21	HAIBP89	727543	31	311 - 1261	968	Pro-70 to Arg-77, Tyr-102 to Thr-107.	5q31.3	131400, 159000, 180071, 181460, 272750, 600807, 601596, 602089	
	HAIBP89	371337	638	1 - 54	1575				
22	HAICP19	422672	32	128 - 1468	969	Asn-27 to Leu-47, Gln-81 to Lys-88, Asp-93 to Lys-102, Asn-107 to Leu-116, Met-129 to Glu-141, Glu-150 to Asp-157, Lys-176 to Glu-185, Glu-333 to Tyr-349, Cys-393 to Leu-403, Gln-423 to Gly-429.	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 602089, 602121, 602460	
23	HAIFL18	676933	33	274 - 693	970	Glu-28 to Gly-45, Ser-63 to Gly-69.			

								Gln-96 to Trp-104, Gly-112 to Pro-117, Arg-121 to Pro-128.			
24	HJAF57	823516	34	43 - 324	971			Cys-25 to Ile-31, Cys-85 to Asn-91.			
25	HJBR69	638516	35	262 - 423	972						
26	HJBJ75	618530	36	49 - 1872	973			Gly-19 to Ser-27, Gln-39 to Gly-45, Gln-48 to Ala-55, Ala-75 to Thr-80, Thr-198 to Gly-211.	10q23.33	157640, 174900, 236730, 600512	
27	HAMFK58	647105	37	279 - 518	974			Met-1 to Ser-6.			
28	HAMGG68	731859	38	312 - 479	975						
29	HANGG89	845690	39	520 - 675	976						
	HANGG89	852533	639	125 - 418	1576			Glu-61 to Gln-66, Ala-93 to Glu-98.			
	HANGG89	844216	640	70 - 1245	1577			Pro-31 to Thr-48, Arg-62 to Gly-70, Ala-74 to Glu-87, Lys-123 to Asp-129, Pro-162 to Gly-167, Glu-170 to Gly-189, Arg-220 to Asn-228.			
	HANGG89	692291	641	78 - 1379	1578			Pro-28 to Thr-45, Arg-59 to Gly-67, Ala-71 to Glu-84, Lys-120 to Asp-126, Pro-159 to Gly-164, Glu-167 to Gly-186, Arg-217 to Asn-225, Glu-245 to Ala-255, Gly-282 to Gly-297,			

								Pro-312 to Gly-324, Thr-356 to Lys-364, Gly-366 to Thr-372, Lys-377 to Ala-383, Gly-397 to Thr-407, Thr-419 to Gly-433.			
30	HAPBS03	656755	40	252 - 377	977				1p36.11	120550, 120570, 120575, 130500, 133200, 600975	
31	HAPNY86	587261	41	100 - 489	978			Pro-27 to Leu-41.			
32	HAPNY94	699770	42	94 - 246	979			Ser-30 to Trp-37.	6p25	134570, 601090, 602028	
33	HAPPW30	1352278	43	59 - 850	980			Glu-42 to Pro-53, Ser-67 to Tyr-79, Phe-137 to Leu-143, Ser-180 to Arg-186, Trp-188 to Gly-195, Pro-210 to Arg-216, Thr-222 to Asp-243.			
	HAPPW30	684272	642	54 - 329	1579			Glu-42 to Pro-53, Ser-67 to Thr-73, Ala-84 to Leu-90.			
34	HAPQT22	587601	44	132 - 350	981						
35	HAPUC89	834358	45	385 - 807	982						
36	HASAV70	1300782	46	94 - 426	983			Lys-26 to Tyr-33, Arg-44 to Ile-49, Ser-53 to Lys-71, Lys-86 to Pro-91.	1q23.1- q24.1	107300, 131210, 136132, 145001, 173610, 601518, 601652	
	HASAV70	381953	643	103 - 432	1580			Lys-26 to Tyr-33, Arg-44 to Ile-49, Ser-53 to Lys-71, Lys-86 to Pro-91.			
37	HASCG84	603947	47	216 - 377	984				X		
38	HATAC53	1352276	48	97 - 840	985			Lys-25 to Ser-36, Ser-53 to Glu-60,			

							Pro-89 to Ala-97, Pro-100 to Lys-125, Ser-127 to Phe-135, Ser-180 to Ser-185.			
	HBGNU56	1094642	647	79 - 612	1584		Thr-19 to Ala-33, Leu-54 to Asp-82, Pro-89 to Ala-97, Pro-100 to Lys-125, Ser-127 to Phe-135, Gly-164 to Leu-169, Cys-173 to Arg-178.			
	HBGNU56	1050255	648	2 - 658	1585		Arg-16 to Ser-31.			
49	HBHAD12	420036	59	176 - 247	996					
50	HBHMA23	848016	60	71 - 661	997		Lys-39 to Asn-48, Arg-63 to Gly-68, Pro-101 to Gln-106.	20q11.21		
	HBHMA23	699815	649	70 - 300	1586		Lys-39 to Asn-48.			
51	HBIMB51	963208	61	98 - 535	998		His-24 to Ala-29, Glu-42 to Glu-49, Arg-63 to Thr-80, Gln-100 to Lys-119, Lys-141 to Gln-146.			
	HBIMB51	672711	650	93 - 485	1587		His-24 to Ala-29, Glu-42 to Glu-49.			
52	HBINS58	1352386	62	57 - 578	999		Gly-32 to Gly-37, Glu-78 to His-87, Tyr-102 to Ala-107, Pro-115 to Val-122, Lys-164 to Tyr-170.	1		
	HBINS58	961712	651	71 - 592	1588		Gly-32 to Gly-37, Glu-78 to His-87, Tyr-102 to Ala-107,			

							Pro-115 to Val-122, Lys-164 to Gln-171.			
	HBINS58	892924	652	100 - 732	1589		Gly-32 to Gly-37, Glu-78 to His-87, Tyr-102 to Ala-107, Pro-115 to Val-122.			
53	HBJFU48	460392	63	20 - 142	1000					
54	HBJIY92	778065	64	548 - 670	1001		Asp-30 to Val-40.	11p15	108985, 186921, 602092	
55	HBJLC01	638410	65	87 - 227	1002					
56	HBJLF01	732111	66	217 - 951	1003		Tyr-123 to Tyr-131, Cys-134 to Ser-145, Tyr-234 to Tyr-244.			
57	HBJLH40	828130	67	74 - 298	1004		Ile-69 to Pro-74.			
58	HBJNC59	1125802	68	66 - 803	1005		Pro-29 to Gly-46, Lys-48 to Gly-55, Lys-67 to Gly-80, Lys-100 to Pro-115, Arg-121 to Gly-127, Asn-139 to Gly-149, Ser-179 to Arg-185, Asp-191 to Gly-196, Lys-219 to Gly-224.	1p36.3- p34.1	120550, 120570, 120575, 121800, 130500, 133200, 138140, 153454, 171760, 171760, 178300, 236250, 255800, 256700	
	HBJNC59	899397	653	66 - 365	1590		Pro-29 to Gly-46, Lys-48 to Gly-55, Lys-67 to Gly-80, Gly-89 to Asn-99.			
	HBJNC59	902207	654	64 - 801	1591		Pro-29 to Gly-46, Lys-48 to Gly-55, Lys-67 to Gly-80, Lys-100 to Pro-115, Arg-121 to Gly-127, Asn-139 to Gly-149,			

							Ser-179 to Arg-185, Asp-191 to Gly-196, Lys-219 to Gly-224.			
59	HBMCI50	668268	69	156 - 407	1006	Arg-37 to Gly-42.	1			
60	HBNAW17	526797	70	77 - 262	1007					
61	HBOEG11	1300752	71	57 - 809	1008	Met-1 to Lys-6, Cys-30 to Cys-39, Glu-95 to Cys-100, Val-102 to Phe-113, Cys-121 to Gly-127, Val-216 to Arg-224, Pro-236 to Asn-247.	20q12- q13.1	256540, 600281, 600281		
	HBOEG11	1121709	655	53 - 805	1592	Met-1 to Lys-6, Cys-30 to Cys-39, Glu-95 to Cys-100, Val-102 to Phe-113, Cys-121 to Gly-127, Val-216 to Arg-224, Pro-236 to Asn-247.				
	HBOEG11	1049830	656	47 - 799	1593	Met-1 to Lys-6, Cys-30 to Cys-39, Glu-95 to Cys-100, Val-102 to Phe-113, Cys-121 to Gly-127, Val-216 to Arg-224, Pro-236 to Asn-247.				
62	HBOEG69	793786	72	302 - 466	1009					
63	HBXFL29	842802	73	560 - 733	1010	Arg-36 to Pro-43.	17q22-q23	106180, 109270, 109270, 109270, 109270, 120150, 120150, 120150, 138700, 139250, 148065, 148080, 150200, 154275, 171190, 176960, 185800, 221820, 249000, 253250, 600525, 600852, 601844		
64	HCACU58	625923	74	137 - 388	1011					

65	HCACV51	1306706	75	168 - 413	1012	Val-34 to Lys-46, Glu-67 to Trp-72.			
	HCACV51	598022	657	173 - 1018	1594	Val-34 to Leu-48, Val-51 to Gly-67, Lys-74 to Asp-81, Thr-93 to Glu-98, Ser-138 to His-149, Ala-186 to Gln-201, Pro-257 to Arg-271.			
66	HCDAF84	544988	76	168 - 338	1013				
67	HCE1Q89	520329	77	74 - 340	1014	Cys-56 to Ser-63, Met-67 to Leu-73.			
68	HCE2F54	634016	78	166 - 1125	1015	His-44 to Pro-50, Glu-90 to Glu-96, Gln-111 to Glu-117, Ser-143 to Gly-151, Ala-154 to Leu-166, Pro-199 to Ala-216, Gly-264 to Asp-272.	16q22.1		103850, 114835, 116800, 140100, 140100, 192090, 192090, 245900, 245900, 276600, 600223
69	HCEFB80	1143407	79	12 - 281	1016	Met-1 to Ala-8, Ser-51 to Leu-62, Pro-70 to Lys-78.	22q13.33		
	HCEFB80	1046853	658	5 - 274	1595	Met-1 to Ala-8.			
70	HCEGR33	425212	80	243 - 338	1017				
71	HCEMP62	684780	81	352 - 915	1018		2p23.3		176830, 176830, 182601, 229800, 602134
	HCEMP62	879178	659	19 - 1023	1596	His-18 to Arg-26, Tyr-53 to Ser-58, Glu-72 to Leu-82, Glu-95 to Asp-106, Asp-146 to Ser-152, Ser-180 to Gly-185.			
72	HCENK38	658737	82	10 - 168	1019	Tyr-30 to Ser-40.			

73	HCEWE17	941941	83	117 - 437	1020	Gly-36 to Thr-41, Pro-99 to Cys-106.	1q21.3	104770, 107670, 110700, 145001, 146760, 146790, 191315, 601412, 601652, 601863, 602491
	HCEWE17	893535	660	500 - 583	1597			
	HCEWE17	460407	661	156 - 317	1598	His-12 to Lys-18, Ala-20 to Ala-26, Arg-30 to Trp-52.		
74	HCEWE20	543370	84	166 - 321	1021	Ser-17 to Gln-22.		
75	HCFCU88	553587	85	217 - 507	1022	Glu-32 to Tyr-37, Gln-68 to Ser-76.		
76	HCFMV71	526599	86	31 - 207	1023	Arg-35 to Gly-44.		
77	HCFNN01	430297	87	254 - 385	1024			
78	HCFOM18	553582	88	28 - 219	1025			
79	HCHNF25	1352270	89	1130 - 1636	1026	Val-34 to Leu-39, Ser-64 to Cys-74, Ser-86 to Lys-94, Gln-133 to Asn-143, Pro-160 to Asp-169.		
	HCHNF25	658672	662	180 - 623	1599	Val-34 to Leu-39, Ser-64 to Cys-74, Ser-86 to Ser-95, Arg-128 to Ala-136.		
80	HCMSEQ56	740781	90	148 - 414	1027	Pro-61 to Asp-68.	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460
81	HCMST14	562010	91	136 - 279	1028	Pro-25 to Ser-30, Thr-36 to Ser-47.		
82	HCMTB45	862367	92	215 - 583	1029	Ser-61 to Trp-67.		
	HCMTB45	562034	663	209 - 421	1600			
83	HCNSB61	526413	93	218 - 349	1030	Pro-26 to Asn-32.		
84	HCNSD93	630649	94	139 - 279	1031			
85	HCNSM70	637547	95	107 - 751	1032	Met-1 to Ser-6.	11q24	600359, 602574, 602574
	HCNSM70	589445	664	161 - 436	1601	Met-1 to Ser-6.		

86	HCOOS80	1134974	96	36 - 512	1033	Pro-39 to Leu-44, Gln-80 to Pro-93, Pro-153 to Pro-158.	17p13.2	
	HCOOS80	1045182	665	40 - 516	1602	Pro-39 to Leu-44, Gln-80 to Pro-93, Pro-153 to Pro-158.		
	HCOOS80	1045183	666	1 - 318	1603	Pro-12 to His-25.		
87	HCUBS50	499240	97	88 - 204	1034			
88	HCUCK44	720291	98	593 - 772	1035		19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
89	HCUEO60	499242	99	102 - 296	1036			
90	HCUHK65	651313	100	80 - 319	1037	Met-24 to Gly-29, Ala-57 to Thr-63.		
	HCUHK65	880178	667	770 - 2893	1604	Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321, Pro-400 to Val-407, Ala-446 to Pro-452, Thr-487 to Gly-492, Phe-517 to Gly-523, Tyr-599 to Lys-605, Thr-611 to Thr-626, Met-653 to Gly-658, Ala-686 to Thr-692.		
91	HCUIIM65	550208	101	557 - 700	1038			
92	HCWEB58	1352416	102	148 - 1176	1039	Pro-54 to Phe-63, Gly-115 to Gln-121, Gln-136 to Ala-141, Gln-164 to Leu-178, Glu-194 to Trp-203, Glu-215 to Arg-222,		

100	HDHIA94	765171	110	154 - 657	1047				600958	
	HDHIA94	637576	672	163 - 309	1609					
101	HDHMA72	547772	111	287 - 1234	1048			7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725	
							Glu-67 to Asn-74, Glu-88 to Asn-93, Lys-95 to Ser-105, Arg-152 to Ala-164, Ala-204 to Arg-210, Phe-254 to Thr-262, Pro-295 to His-311.			
102	HDLAC10	692299	112	132 - 377	1049			11p15.3	168450, 168450, 257200, 257200	
103	HDLAO28	890457	113	259 - 489	1050		Phe-48 to Tyr-54.	2q21.3	256030	
104	HDPBI32	1352360	114	37 - 984	1051			12q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153	
	HDPBI32	862851	673	103 - 915	1610		Ala-12 to Glu-27, Pro-35 to Ser-43, Pro-70 to Gly-79, Ser-92 to Val-98, Pro-166 to Leu-175, Ser-234 to Thr-246.			
	HDPBI32	590733	674	51 - 464	1611					
105	HDPBQ71	1160316	115	93 - 1928	1052		Leu-56 to Thr-62, Gln-80 to Pro-87, Gly-106 to Gln-113, Pro-122 to Lys-127, Gln-138 to Asn-146, Cys-280 to Lys-287, Asp-306 to Gly-311, Asp-321 to Thr-326, Gly-337 to Pro-345, Thr-354 to Gln-359,			

								Asn-451 to Ile-457, Lys-526 to Glu-532, Gln-591 to Glu-603.			
	HDPBQ71	727200	675	24 - 1859	1612			Leu-56 to Thr-62, Gln-80 to Pro-87, Gly-106 to Gln-113, Pro-122 to Lys-127, Gln-138 to Asn-146.			
	HDPBQ71	886067	676	165 - 1535	1613			Leu-56 to Thr-62, Gln-80 to Pro-87, Gly-106 to Gln-113, Pro-122 to Lys-127, Gln-138 to Asn-146, Cys-280 to Lys-287, Asp-306 to Gly-311, Asp-321 to Thr-326, Gly-337 to Pro-345, Thr-354 to Gln-359, Asn-451 to Arg-456.			
106	HDPJC91	740748	116	131 - 286	1053			Tyr-33 to Lys-38.			
107	HDPJO25	460682	117	182 - 343	1054			Pro-22 to His-33, Ser-42 to Trp-48.			
108	HDPJC37	837699	118	76 - 1809	1055		12q13.3	Pro-23 to His-34, Thr-64 to Trp-71.	181430, 232800, 600808, 601284, 601769, 602116		
	HDPJC37	604114	677	76 - 870	1614			Pro-23 to His-34, Thr-64 to Trp-71, Lys-245 to Ala-252.			
109	HDPFB02	898208	119	173 - 631	1056			Glu-72 to Gly-77, Arg-115 to Arg-125, His-138 to Pro-146.			
	HDPFB02	1056541	678	139 - 1086	1615			Met-1 to Gly-6, Glu-81 to Gly-86,			

							Glu-150 to Asp-159, Ser-166 to Glu-173, Ser-277 to Glu-291, Leu-302 to Gly-312.			
	HDPFB02	997408	679	218 - 1123	1616		Arg-17 to Glu-24, Glu-41 to Asp-46, Val-76 to Arg-83, Thr-104 to Gln-109.			
110	HDPFF39	588697	120	175 - 765	1057		Ser-128 to Thr-133, Thr-158 to Thr-166, Leu-168 to Gly-175, Ala-179 to Asp-196.	19q13.2- q13.3	107741, 113900, 122720, 126340, 126391, 130410, 134790, 138570, 160900, 164731, 173850, 207750, 248600, 258501, 600040, 602225, 602225	
111	HDPFP29	628254	121	293 - 451	1058					
112	HDPGI49	785887	122	266 - 484	1059			15q		
113	HDPGP94	823355	123	256 - 480	1060					
114	HDPHI51	460679	124	245 - 367	1061		Gly-2 to Glu-7, Arg-27 to Gly-34.			
115	HDPJF37	704487	125	196 - 369	1062		Pro-27 to Gly-34.			
116	HDPMM88	972734	126	100 - 2913	1063		Met-1 to Ser-13, Ser-45 to Phe-51, Asn-103 to Lys-113, Phe-135 to Gly-140, Asp-165 to Pro-178, Ser-224 to Ala-229, Asn-283 to Arg-288, Asp-347 to Tyr-352, Thr-367 to Glu-372, Gly-420 to Thr-425, Glu-456 to Lys-462, Phe-466 to Asn-474, Glu-480 to Leu-485, Asp-673 to Asp-681,			

									Gln-684 to Gly-689, Leu-841 to Gly-874, Gly-890 to Pro-900, Ser-902 to Ser-911, Leu-918 to Asp-924, Ser-930 to Val-935.			
	HDPMM88	906121	680	141 - 467	1617	Ser-28 to Phe-34, Asn-86 to Tyr-93.						
	HDPMM88	902299	681	44 - 181	1618							
	HDPMM88	885059	682	419 - 439	1619							
	HDPMM88	874074	683	111 - 146	1620							
	HDPMM88	854246	684	167 - 334	1621							
	HDPMM88	854245	685	28 - 186	1622	Ser-26 to Thr-31.						
117	HDPNC61	637585	127	20 - 304	1064	Glu-35 to Lys-44, Cys-83 to Gly-88.						
118	HDPND46	637586	128	15 - 1469	1065	Ala-107 to Ser-112.						
119	HDPOE32	897276	129	118 - 573	1066	Ala-88 to Gln-98.		8p21.2- p21.1	138300, 240400, 602629			
120	HDPOH06	683371	130	252 - 980	1067	Met-1 to Ser-8.						
121	HDPOZ56	1352319	131	91 - 1791	1068	Gln-22 to Gln-44, Ala-90 to Gly-95, Lys-137 to Trp-146, Arg-171 to Asp-181, Glu-370 to Ser-380, Asp-447 to Gly-452, Gln-463 to Trp-469, Asn-505 to Ala-511, Asp-513 to His-520, Ala-542 to Val-551, Asn-559 to His-567.						
	HDPOZ56	815653	686	103 - 1800	1623	Gln-22 to Gln-44, Ala-90 to Gly-95.						

							Lys-137 to Trp-146, Arg-171 to Asp-181, Glu-370 to Ser-380, Asp-447 to Gly-452, Gln-463 to Trp-469, Asn-504 to Ala-510, Asp-512 to His-519, Ala-541 to Val-550, Asn-558 to His-566.			
	HDPOZ56	743479	687	59 - 1018	1624		Gln-22 to Gln-44, Ala-53 to Gly-58.			
122	HDPSP54	744440	132	2356 - 2499	1069		Pro-29 to Lys-37.	1q21.2	104770, 107670, 110700, 145001, 146760, 146790, 191315, 601412, 601652, 601863, 602491	
	HDPSP54	502472	688	179 - 343	1625					
123	HDPTD15	692917	133	223 - 825	1070		Arg-20 to Lys-44, Arg-59 to Arg-68, Trp-74 to Lys-86, Thr-91 to Val-102.			
124	HDPTK41	744824	134	39 - 1148	1071		Glu-102 to Asn-110, Arg-256 to Leu-266, Pro-316 to Trp-328, Pro-331 to Arg-336, Met-350 to Gly-358.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	
125	HDPUG50	684120	135	22 - 1602	1072		Glu-136 to Pro-141, Ala-221 to Ser-227, Asp-307 to Pro-312, Lys-355 to Gly-361, Phe-449 to Pro-454.	11pter- p15.5		
126	HDPUH26	866433	136	90 - 1739	1073		Ser-28 to Phe-33, Glu-35 to Pro-41, Lys-48 to Val-54, Pro-100 to Glu-105, Pro-107 to Glu-112,	2p11.2	178640, 216900	

							Leu-119 to Gln-125, Gly-335 to Leu-340, Ser-383 to Arg-396, Leu-417 to Lys-429, Asp-477 to Arg-482, Tyr-532 to Ser-540, Ile-542 to Asn-549.				
127	HDPVW68	812737	137	40 - 1440	1074		Gly-12 to Tyr-26, Val-52 to Asp-59, Gln-88 to Asp-93, Arg-124 to Asn-129, His-193 to Arg-198, Gln-207 to Thr-213, Gln-338 to Arg-346, Ser-378 to Ala-384, Ser-413 to Arg-420, Ser-428 to Glu-434, His-443 to Ser-451, Glu-454 to Ser-461.				
128	HDPVH60	796865	138	8 - 163	1075			16q13	114835, 132700, 172490, 600968		
129	HDPVW11	1036997	139	67 - 1434	1076		Asp-57 to Glu-62, Thr-91 to Ala-96, Thr-114 to Ser-131, Gly-133 to Pro-160, Gln-356 to Arg-365, Pro-383 to His-391, Leu-401 to Trp-406, Pro-430 to Asp-436.	1p33	120260, 138140, 178300, 246450		
	HDPVW11	896530	689	50 - 349	1626		Asp-57 to Gly-64.				
130	HDPWN93	992925	140	45 - 2453	1077		Pro-36 to Ser-52, Ala-63 to Pro-78, Ala-106 to Lys-115, Glu-134 to Glu-141,	17q21.33	109270, 109270, 109270, 109270, 109270, 120150, 120150, 120150, 148065, 148080, 154275, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844		

						Val-155 to Asp-164, Phe-199 to Gly-204, Arg-218 to Leu-228, Glu-230 to Val-235, Val-247 to Pro-253, Arg-262 to Gly-276, Thr-303 to Gln-310, Arg-335 to Trp-342, Glu-399 to Ala-415, Ser-458 to Glu-466, Arg-508 to Asp-517, Glu-580 to Pro-585, Gln-620 to Trp-628, Lys-651 to Ala-657, Gly-677 to Met-682, Ala-712 to Leu-717, Gly-724 to Thr-731, Arg-770 to Gln-775.			
	HDPWN93	887914	690	35 - 679	1627	Pro-36 to Ser-52, Ala-63 to Pro-78, Ala-106 to Lys-115, Glu-134 to Glu-141, Val-155 to Asp-164.			
	HDPWN93	905983	691	27 - 158	1628				
131	HDPWU34	630354	141	117 - 1091	1078	Arg-23 to Gln-30, Asp-37 to Asp-50, Glu-230 to Met-235, Pro-271 to Arg-281, Arg-306 to Ser-316, Ser-318 to Gly-325.			
	HDPWU34	701979	692	111 - 245	1629	Arg-25 to Ser-35, Ser-37 to Gly-44.			
132	HDQHD03	1309175	142	274 - 1266	1079	Arg-26 to Lys-46,			

									Ala-70 to Lys-81, Gln-100 to Pro-105, Val-118 to Leu-123, Pro-166 to Pro-171, Gly-310 to Gly-331.			
	HDQHD03	834692	693	259 - 1257	1630				Arg-26 to Lys-46, Ala-70 to Lys-81, Phe-92 to Gly-98.			
133	HDTBD53	972757	143	288 - 1385	1080			3p25.1	Glu-91 to Arg-117, Lys-124 to Ser-136, Tyr-191 to Glu-200, Glu-265 to Lys-272.	193300, 193300, 227646		
	HDTBD53	906342	694	292 - 1389	1631				Glu-91 to Arg-117, Lys-124 to Ser-136.			
134	HDTBP04	1307742	144	70 - 729	1081				Glu-25 to Gly-31, Tyr-62 to Thr-68, Ala-189 to Glu-197, Ala-204 to Gln-219.			
	HDTBP04	543618	695	65 - 727	1632				Glu-25 to Gly-31, Tyr-62 to Thr-68.			
135	HDTDQ23	1306984	145	132 - 302	1082				Arg-24 to Arg-31, Ile-33 to Trp-41, Met-43 to His-52.			
	HDTDQ23	879009	696	148 - 471	1633				Arg-24 to Arg-31, Ile-33 to Gly-41.			
	HDTDQ23	751707	697	148 - 369	1634				Arg-24 to Arg-31.			
136	HDTEK44	1025421	146	691 - 942	1083			5	Arg-45 to Ser-54, Ser-78 to Ser-83.			
	HDTEK44	890972	698	175 - 378	1635				Leu-36 to Gly-41, Lys-51 to Arg-56, Arg-58 to Gly-66.			
	HDTEK44	904770	699	116 - 319	1636				Leu-36 to Gly-41,			

								Lys-51 to Arg-56, Arg-58 to Gly-66.			
	HDTEK44	902431	700	673 - 924	1637			Arg-45 to Ser-54, Ser-78 to Ser-83.			
137	HDTEN81	571078	147	114 - 371	1084			Ser-21 to Asp-35, Pro-47 to Pro-52, Pro-62 to Asn-67.			
138	HDTFE17	1043391	148	260 - 349	1085		X				
	HDTFE17	874477	701	251 - 340	1638						
	HDTFE17	892317	702	101 - 343	1639						
139	HDTGC73	635457	149	386 - 535	1086			Tyr-41 to Pro-46.			
140	HDTIT10	839264	150	58 - 948	1087		17q25.3	Lys-5 to Gly-15, Glu-188 to Pro-194, Asp-207 to Met-216, Cys-226 to Ser-231, Thr-256 to Thr-264.	170500, 170500, 170500, 232300, 252900		
	HDTIT10	834697	703	161 - 331	1640						
141	HDTMK50	1011485	151	154 - 309	1088		1,19	Ser-21 to Thr-26, Thr-36 to Cys-44.			
	HDTMK50	906320	704	164 - 319	1641						
	HDTMK50	857362	705	200 - 205	1642						
142	HE2DY70	722217	152	137 - 313	1089		10q23.2- q23.31		157640, 174900, 203300, 236730, 600512		
143	HE2EB74	513662	153	507 - 566	1090						
144	HE2EN04	545008	154	57 - 209	1091						
145	HE2FV03	396139	155	116 - 241	1092						
146	HE2NV57	740750	156	99 - 398	1093			Ala-84 to Gln-93.			
147	HE2PD49	638617	157	337 - 852	1094		8	Ala-67 to Glu-72, Thr-91 to Ile-100.			
148	HE2PY40	753229	158	147 - 398	1095						
149	HE6EU50	411998	159	237 - 341	1096			Arg-28 to Gly-34.			
150	HE8DS15	847060	160	91 - 309	1097		18				

151	HE8MH91	589450	161	63 - 413	1098	Thr-21 to Leu-26.	16q22.2	103850, 276600	
152	HE8QV67	1050076	162	502 - 744	1099		9		
	HE8QV67	1050077	706	256 - 1500	1643	Gln-29 to Lys-35, Lys-48 to Gln-54, Arg-80 to Asp-90, Pro-166 to Arg-173, Glu-178 to Tyr-188, Glu-220 to Leu-228, Ile-246 to Pro-253, Arg-281 to Asp-288, Ser-305 to His-313, Asn-319 to Asp-328, Asp-361 to Phe-366, Arg-372 to Tyr-377, Gly-384 to Ser-402.			
153	HE9BK23	675382	163	39 - 968	1100	Arg-18 to Asp-27, Leu-29 to Arg-36, Ser-90 to Tyr-104, Val-108 to Lys-114.	1p31.1- p22.3	600309, 601414, 602094	
154	HE9CP41	560625	164	132 - 257	1101	Ala-22 to Lys-36.			
155	HE9DG49	1299935	165	70 - 675	1102	Ala-118 to Phe-124, Arg-178 to Lys-201.			
	HE9DG49	658678	707	70 - 672	1644	Ala-118 to Phe-124, Arg-178 to Lys-201.			
	HE9DG49	382000	708	78 - 686	1645	Ala-118 to Phe-124, Thr-177 to Lys-203.			
156	HE9HY07	420063	166	35 - 160	1103	Pro-35 to Phe-41.			
157	HE9NN84	846309	167	380 - 538	1104	Asp-40 to Tyr-46.	10		
158	HE9OW20	1352337	168	129 - 1193	1105	Gln-44 to Gly-51, Gln-119 to Ala-124, Trp-209 to Ile-223.			
	HE9OW20	838598	709	136 - 1074	1646	Gln-44 to Gly-51,			

									Gln-119 to Ala-124, Trp-209 to Ile-223.			
	HE9OW20	834400	710	129 - 533	1647							
159	HE9RM63	886167	169	82 - 1146	1106				Glu-58 to Lys-63, Lys-78 to Tyr-86, Ala-127 to Cys-135, Ala-159 to Asn-180, Lys-205 to Glu-210, Lys-221 to Lys-226, Ser-240 to Asp-247, Thr-258 to Glu-267.			
160	HEAAR07	561524	170	48 - 176	1107							
161	HEBAE88	526417	171	160 - 288	1108				Ser-25 to Tyr-35.			
162	HEBBN36	486120	172	645 - 806	1109					17q21.31	109270, 109270, 109270, 109270, 109270, 120150, 120150, 120150, 148065, 148080, 154275, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844	
163	HEBCM63	484643	173	246 - 452	1110				Cys-26 to Leu-32, Thr-49 to Ile-55, Glu-57 to Glu-63.			
164	HEBEJ18	701802	174	51 - 467	1111				Ser-39 to Asn-45, Asn-103 to Ser-109.			
165	HEEAG23	684254	175	57 - 197	1112							
166	HEEAJ02	633657	176	387 - 761	1113				Pro-5 to Leu-10.	17p11.2	100710, 182290, 201475, 270200, 601097, 601097, 601097, 602666	
167	HEEAQ11	777843	177	213 - 656	1114				Phe-31 to Asp-38, Asn-59 to Tyr-65, Ser-76 to Glu-82, Thr-96 to Cys-108, Gln-111 to Asn-118.			
168	HEEBI05	1307611	178	146 - 625	1115				Gly-25 to Leu-30, Pro-40 to Ser-49, Pro-74 to Ser-91.			

								Asn-97 to Cys-104, Pro-115 to Phe-123, Ser-125 to Ser-132.			
	HEEBI05	1047700	711	226 - 705	1648			Gly-25 to Leu-30, Pro-40 to Ser-49, Pro-74 to Ser-91, Asn-97 to Cys-104, Pro-115 to Phe-123, Ser-125 to Ser-132.			
169	HEGAH43	532596	179	29 - 364	1116			Lys-35 to Glu-41, Ala-62 to Asn-67.	20p13	192340, 234200	
170	HEGAN94	885637	180	52 - 417	1117			Ile-40 to Cys-49, Arg-52 to Cys-57, Ser-94 to Trp-99, Gly-105 to Gly-111.			
	HEGAN94	769649	712	133 - 498	1649			Ile-40 to Cys-49, Arg-52 to Cys-57, Ser-94 to Trp-99, Gly-105 to Gly-111.			
171	HEGBS69	1093342	181	260 - 745	1118			Pro-46 to His-54, Pro-61 to Lys-73, Ser-104 to Gly-116, Thr-151 to His-156.	8q24.3	188450, 188450, 188450	
	HEGBS69	1048170	713	253 - 738	1650			Pro-46 to His-54, Pro-61 to Lys-73.			
172	HELK31	681138	182	209 - 1243	1119				7p22.1		
	HELK31	340352	714	402 - 1274	1651			Asp-102 to His-111, Asn-231 to Trp-244, Pro-255 to Gln-260, Glu-286 to Glu-291.			
173	HELHD85	847372	183	41 - 280	1120			Asn-36 to Gln-41, Pro-49 to Ser-54,			

174	HELHL48	696945	184	629 - 1501	1121	Cys-65 to Ser-70. Pro-44 to Lys-54, Cys-88 to His-95, Val-103 to Tyr-108, Gln-181 to Ser-190, Thr-192 to Ile-206, Glu-233 to Ser-245, Ser-252 to Ala-286.	9	
	HELHL48	610025	715	31 - 582	1652	Pro-44 to Lys-54, Cys-88 to His-95, Val-103 to Tyr-108, Leu-146 to Pro-157, Pro-176 to Gln-184.		
175	HEMAM41	741647	185	175 - 744	1122			
	HEMAM41	419870	716	175 - 450	1653			
176	HEPAA46	596830	186	18 - 389	1123	Tyr-21 to Asp-40, Ser-58 to Arg-64, Thr-71 to Ser-76, Ser-106 to Thr-112.		
177	HEPAB80	1307790	187	73 - 438	1124	Met-1 to Pro-6, Glu-58 to Cys-63, Glu-65 to Gly-72, Thr-74 to Asn-88, Tyr-104 to Trp-109.		
	HEPAB80	570048	717	67 - 435	1654	Met-1 to Pro-6, Glu-58 to Cys-63, Glu-65 to Gly-72, Thr-74 to Val-87.		
178	HEQAK71	598018	188	198 - 332	1125			
179	HERAR44	566811	189	60 - 197	1126			
180	HESAJ10	526013	190	405 - 620	1127			
181	HETAB45	609827	191	123 - 662	1128	Asp-35 to Ser-41,	2p23.3	176830, 176830, 182601, 229800, 602134

182	HETBR16	703243	192	161 - 355	1129	Ser-69 to Gly-74.			
183	HETLM70	1177512	193	336 - 1025	1130	Ile-23 to Ala-29.			
	HETLM70	1046327	718	336 - 1025	1655		7p22.3		
	HETLM70	1046328	719	2 - 256	1656	Arg-16 to Gln-28.			
184	HFABG18	847073	194	53 - 316	1131	Glu-36 to Lys-55.	19q13	109560, 205900, 600652, 600757	
185	HFAMB72	490697	195	559 - 741	1132	Gln-53 to Thr-60.			
186	HFAMH77	543486	196	240 - 425	1133	Ser-33 to Ser-44.			
187	HFCCQ50	579993	197	47 - 1105	1134	Ala-27 to Ser-38, Pro-43 to Asn-54, Thr-115 to Asp-121, Leu-225 to Val-232, Pro-247 to Gly-252, Arg-306 to Leu-311.	12q24	113100, 124200, 147440, 158590, 160781, 163950, 163950, 251170, 276710, 600175, 601517	
188	HFCEW05	561560	198	34 - 663	1135	Asn-20 to Gly-27, Ser-49 to Trp-54, Leu-95 to Thr-101, Ala-140 to Pro-148.			
189	HFFAD59	520369	199	44 - 181	1136	Lys-13 to Asn-19, Asn-27 to Asn-35.	4q32-q34	189800, 208400, 231675	
190	HFFAL36	560639	200	68 - 238	1137				
191	HFGAD82	513669	201	1019 - 1135	1138		Xp22.2	300075, 300077, 301200, 302350, 302801, 305435, 306000, 306000, 307800, 308800, 309510, 311200, 312040, 312170, 312700, 313400	
192	HFILZ70	1043350	202	24 - 167	1139		22		
	HFILZ70	906708	720	74 - 217	1657				
193	HFKET18	889515	203	137 - 361	1140	Lys-60 to Ser-74.			
194	HFKFG02	634743	204	110 - 271	1141		11q13.1-q13.2	106100, 133780, 601650, 602078	
195	HFOXBI3	570699	205	36 - 200	1142	Trp-30 to Val-35, Lys-44 to Arg-49.			
196	HFPAC12	589522	206	140 - 406	1143	Thr-26 to Glu-33.	5q33.2	109690, 109690, 164770, 180071	

197	HFAO71	629193	207	414 - 809	1144	Pro-43 to Pro-50, Asn-65 to Gly-70.		
198	HFPCX09	1309793	208	185 - 1834	1145	Glu-25 to Lys-33, Glu-115 to Lys-120, Leu-162 to Cys-169, Glu-193 to Ile-203, Ala-219 to Pro-225, Glu-261 to Thr-271, Lys-331 to Trp-336, Lys-353 to Gly-358, Phe-412 to Asp-417, Gln-458 to Gly-467, Phe-533 to Gln-538.		
	HFPCX09	835390	721	249 - 1895	1658	Glu-25 to Lys-33, Glu-115 to Lys-120.		
	HFPCX09	598723	722	185 - 385	1659	Glu-25 to Asn-33.		
199	HFPCX36	526635	209	103 - 243	1146			
200	HFRAN90	520368	210	178 - 342	1147	Pro-49 to Gly-54.		
201	HFTCU19	735139	211	137 - 802	1148	His-2 to Lys-7, Ser-28 to Glu-35.		
	HFTCU19	456457	723	157 - 327	1660			
202	HFTDL56	695976	212	93 - 1652	1149	Met-1 to Pro-7, Gln-21 to Glu-27, Arg-35 to Asp-49, Asn-66 to Leu-72, Trp-82 to Glu-95, Pro-158 to Asn-163.		
203	HFTDZ36	545726	213	547 - 753	1150		16q24.3	155555, 155555, 227650, 253000, 602783
204	HFVAB79	1300736	214	133 - 717	1151	Ser-21 to Trp-34, Cys-68 to Gly-89, Cys-122 to Phe-133, Glu-188 to Leu-194.		

	HFVAB79	565076	724	139 - 723	1661	Ser-21 to Trp-34, Cys-68 to Gly-89, Cys-122 to Phe-133.		
205	HFVGE32	854545	215	154 - 393	1152		9	
	HFVGE32	698580	725	1 - 201	1662	His-49 to Ser-55.		
206	HFVIC62	799525	216	114 - 284	1153	Glu-44 to Asp-50.		
207	HFHAM76	601402	217	213 - 452	1154	Arg-30 to Gly-42, Asp-58 to Ser-63.		
208	HFVDJ75	626114	218	44 - 169	1155	Pro-31 to Pro-37.		
209	HFVDN63	553685	219	33 - 194	1156	Pro-21 to Ser-27.		
210	HFVGT26	745381	220	13 - 270	1157	His-56 to Gln-65, Leu-80 to Ile-85.		
211	HFVGV31	526253	221	100 - 294	1158	Gly-36 to Arg-43, Glu-50 to Glu-58.		
212	HFVHD88	589523	222	130 - 516	1159	Ala-122 to Gly-128.		
213	HFVHK73	609826	223	247 - 450	1160	His-55 to His-67.		
214	HFVKK03	505207	224	179 - 304	1161	Met-1 to Arg-8.		
215	HFVKT05	658690	225	204 - 443	1162	Leu-16 to Ser-23, Ser-38 to Pro-43, Gly-53 to Leu-60.	1p34.1	120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 255800
216	HFVXY27	634161	226	44 - 220	1163	Lys-23 to Lys-35, Met-46 to Tyr-52.		
217	HGBFO79	422794	227	273 - 422	1164		17p11.1	100710
218	HGBHE57	566836	228	14 - 220	1165	Ser-18 to Gly-26.	11q25	602782
219	HGBIB74	837220	229	14 - 1144	1166	Ser-67 to Glu-74, Arg-81 to Val-86, Tyr-147 to Asp-160.	20q11.21	
	HGBIB74	838602	726	28 - 540	1663	Ser-67 to Glu-74, Arg-81 to Val-86, Tyr-147 to Asp-160.		
	HGBIB74	899864	727	2 - 454	1664	Ser-3 to Gln-10, Val-14 to Gln-19,		

							Asp-32 to His-40, Gly-50 to His-55, Pro-76 to Ser-87.			
220	HGLAL82	520261	230	144 - 224	1167					
221	HHAAF20	838603	231	141 - 308	1168					
222	HHBCS39	1003028	232	104 - 604	1169			6		
	HHBCS39	883427	728	150 - 650	1665					
	HHBCS39	847543	729	1260 - 1340	1666					
223	HHEAA08	638231	233	88 - 324	1170		Asp-9 to Gln-17.			
	HHEAA08	623588	730	311 - 373	1667					
224	HHEMA59	823100	234	239 - 469	1171			13q13.3	600631	
225	HHEMA75	494099	235	569 - 823	1172		Lys-74 to Tyr-79.	7q33	180105, 222800	
226	HHEMM74	941955	236	94 - 318	1173		Ala-32 to Lys-55.			
	HHEMM74	906815	731	121 - 345	1668		Ala-32 to Lys-55.			
	HHEMM74	902458	732	706 - 807	1669		Pro-13 to His-21, Val-25 to Gly-33.			
	HHEMM74	895682	733	7 - 168	1670		Ser-17 to Cys-29, Arg-32 to Arg-38.			
227	HHENQ22	589958	237	115 - 291	1174		Pro-44 to Tyr-49.			
228	HHEPD24	498227	238	156 - 236	1175		His-22 to Lys-27.			
229	HHEPM33	877639	239	269 - 517	1176		Met-1 to Thr-13, Ser-27 to Phe-34, Arg-53 to Pro-59, Ser-77 to Ser-82.	2q36.1	120070, 120131, 138030, 259900	

230	HHEPT60	463027	240	245 - 355	1177		19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
231	HHEPU04	838217	241	259 - 750	1178	Arg-35 to Ala-41, Phe-55 to Arg-61, Lys-152 to His-163.	16p11.2	147781, 172471, 182381
	HHEPU04	897457	734	267 - 758	1671	Arg-35 to Ala-41, Phe-55 to Arg-61, Lys-152 to His-163.		
	HHEPU04	535730	735	45 - 320	1672	Arg-35 to Ala-41.		
232	HHFBY53	821330	242	172 - 366	1179	Arg-22 to Asn-32.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580
233	HHFEC49	905849	243	30 - 584	1180	Arg-16 to Arg-53, Lys-69 to Leu-79, Gln-81 to Thr-88, His-106 to Cys-114, Pro-139 to Gly-155.		
234	HHFFJ48	634521	244	65 - 385	1181	Ser-19 to Ser-25, Pro-27 to Gly-33, Pro-40 to Asn-47, Pro-65 to Gln-70.		
235	HHFGR93	865581	245	132 - 1304	1182	Ser-61 to Trp-66, Lys-76 to Asp-82, Leu-116 to Tyr-124, Gln-131 to His-140, Gln-175 to Pro-181, Trp-187 to Ser-193, Arg-273 to Leu-278, Glu-280 to Lys-286, Pro-296 to Ile-304, Arg-320 to Gly-329, Pro-345 to Pro-357.		
	HHFGR93	691402	736	130 - 840	1673			
236	HHFHJ59	411332	246	192 - 530	1183	Pro-32 to Ser-39.		

237	HHFHR32	411470	247	58 - 762	1184	Met-1 to Leu-13, Gly-33 to Gly-46, Pro-48 to Gly-57, Pro-63 to Gly-68, Pro-89 to Asn-102, Ser-108 to Asn-113, Pro-118 to Pro-124, Pro-132 to Asn-141, Pro-151 to Asn-157, Ile-191 to Met-199, Ser-202 to Gly-215, Phe-222 to Pro-229.	5q14.1	
238	HHFOJ29	1127491	248	117 - 365	1185	Ser-34 to Arg-39.		
	HHFOJ29	1040264	737	132 - 416	1674			
	HHFOJ29	1042456	738	62 - 517	1675			
239	HHGBO91	520198	249	140 - 289	1186	Lys-39 to Glu-45.		
240	HHGCM76	662329	250	270 - 536	1187		17	
	HHGCM76	383547	739	270 - 302	1676			
241	HHGCQ54	544615	251	62 - 217	1188	Ser-16 to Val-33.		
242	HHGDF16	579890	252	253 - 411	1189			
243	HHGDW43	554613	253	107 - 241	1190	Ser-39 to Ser-44.		
244	HHPDX20	610321	254	174 - 374	1191	Gly-43 to Gly-48.		
245	HHPGO40	1299927	255	116 - 1000	1192			
	HHPGO40	753270	740	68 - 973	1677			
	HHPGO40	560969	741	74 - 745	1678			
246	HHPTJ65	490904	256	247 - 393	1193			
247	HHSDX28	553494	257	90 - 260	1194			
248	HILCF66	636025	258	331 - 465	1195	Gln-23 to Asn-28, Gly-38 to Ile-43.		
249	HJACG02	1307789	259	66 - 392	1196	Val-54 to Asp-59.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
	HJACG02	509948	742	47 - 373	1679	Val-54 to Asp-59.		

250	HJACG30	895505	260	291 - 425	1197	Thr-26 to Asn-39.	15,X	
	HJACG30	821341	743	50 - 439	1680	Pro-57 to Pro-64.		
	HJACG30	774300	744	350 - 715	1681	Lys-1 to Gly-8.		
251	HJBCU04	877643	261	96 - 626	1198	Met-1 to Cys-7, Gln-45 to Gly-61, Gln-77 to Thr-93, Arg-113 to Arg-118, Ser-135 to Glu-147, Gln-155 to Ala-161.	9p13-p12	230400, 250250
252	HJBCY35	719729	262	232 - 1215	1199	Glu-35 to His-41, Ser-62 to Ala-67, Pro-145 to Leu-155, Glu-157 to Ser-163, Arg-190 to Val-197, Asp-208 to Pro-215, Ser-247 to Pro-252.	7p22.3	
253	HJMBI18	545492	263	574 - 816	1200	Thr-26 to Met-33.	12q24.11	160781, 181405
254	HJMBM38	545752	264	387 - 725	1201		19q13.4	134790, 191044, 600040, 600138
255	HJMBT65	596795	265	341 - 469	1202	Thr-36 to Leu-41.	8p11.2- p11.1	136350, 152760, 180100, 182900, 277700, 600617
256	HJMBW30	491209	266	110 - 238	1203	Pro-30 to Ala-35.		
257	HJPAD75	651337	267	60 - 335	1204	Pro-42 to Cys-50, Leu-61 to Ala-66.		
258	HJPCP42	1040297	268	156 - 827	1205	Asp-77 to Leu-82, Gln-185 to Gln-192.		
	HJPCP42	844091	745	134 - 805	1682	Asp-77 to Leu-82.		
	HJPCP42	852573	746	468 - 494	1683			
	HJPCP42	824612	747	1 - 249	1684	Thr-21 to Thr-29, Gln-51 to Arg-57.		
259	HKAAE44	564406	269	113 - 523	1206			
260	HKAAH36	1352332	270	128 - 1006	1207	Asn-31 to Thr-41, Pro-43 to Asp-49.		

	HKAAH36	815661	752	129 - 1007	1689	Pro-265 to Gly-273. Asn-31 to Thr-41, Pro-43 to Asp-49, Glu-56 to Arg-66, Ser-71 to Trp-80, Asn-160 to Val-169, Thr-192 to Val-198, Lys-215 to Asp-226, Asp-234 to Gly-246, Pro-265 to Gly-273.			
	HKAAH36	590734	753	189 - 374	1690	Asn-31 to Thr-41, Pro-43 to Asp-49.			
261	HKAAK02	589945	271	97 - 687	1208	Gln-37 to Ala-42, Thr-51 to Ala-57, Pro-71 to His-79, Glu-124 to Arg-137, Ser-151 to Val-159.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843	
262	HKABI84	565078	272	274 - 417	1209	Phe-25 to Ser-30.	1p32-p34	120950, 120960, 130500, 133200, 138140, 168360, 171760, 171760, 176100, 176100, 178300, 187040, 230000, 255800, 600101, 600650, 600650, 600722, 600722	
263	HKABZ65	862030	273	77 - 808	1210	Ser-25 to Ala-31, Gln-146 to Ser-151, His-231 to Asn-236.			
	HKABZ65	665424	754	69 - 800	1691	Ser-25 to Ala-31, Gln-146 to Ser-151, His-231 to Asn-236.			
264	HKACB56	554616	274	27 - 269	1211	Tyr-39 to Lys-58.			
265	HKACD58	1352202	275	38 - 940	1212	Thr-42 to Pro-53, Val-78 to Glu-86, Glu-103 to Met-112, Ala-124 to Gly-131, Trp-158 to Glu-168,			

							Gln-189 to Phe-210, Ala-221 to Gly-226, Arg-274 to Asp-284, Ala-294 to Gly-299.			
	HKACD58	552465	755	35 - 499	1692		Thr-42 to Pro-53, Val-78 to Glu-86, Glu-103 to Met-112, Ala-124 to Gly-131.			
266	HKACH44	545015	276	375 - 509	1213		Cys-25 to Trp-30.	12q24.31	181405	
267	HKACM93	1352383	277	218 - 2293	1214		Ser-5 to Trp-10, Ala-30 to Glu-39, Arg-66 to Trp-72, Glu-84 to Arg-97, Glu-159 to Gly-176, Ile-189 to Glu-197, Glu-206 to Arg-215, Arg-218 to Gly-227, Gly-316 to Ala-322, Pro-430 to Val-435, Pro-446 to Gly-452, Ser-488 to Gly-504, Glu-569 to Lys-575, Pro-581 to Cys-588, Ala-687 to Gln-692.	1		
	HKACM93	907084	756	189 - 548	1693		Ser-5 to Trp-10, Ala-30 to Glu-39, Arg-66 to Trp-72, Glu-84 to Arg-97.			
	HKACM93	907085	757	314 - 1120	1694		Ser-5 to Trp-10, Ala-30 to Glu-39, Arg-66 to Trp-72, Glu-84 to Arg-97, Glu-159 to Gly-176,			

							Ile-189 to Glu-197, Glu-206 to Arg-215, Arg-218 to His-226.			
	HKACM93	906154	758	202 - 255	1695		Trp-2 to Met-16.			
	HKACM93	906150	759	638 - 775	1696		Gln-24 to Gly-31, Pro-33 to Ala-38.			
268	HKAEL80	570865	278	398 - 637	1215		Pro-41 to Gln-50.			
269	HKAEV06	1352263	279	501 - 1814	1216		Thr-6 to Trp-13, Thr-75 to Gln-80, Thr-112 to Tyr-117, Leu-133 to Pro-138, Ala-146 to Phe-153, Gln-319 to Ser-325, Val-354 to His-372, Pro-391 to Gly-396, Val-405 to Thr-412, Ile-425 to Asp-437.			
	HKAEV06	638238	760	197 - 370	1697		Thr-6 to Trp-13.	15q22.2	151670, 601780	
270	HKAFAK41	545018	280	243 - 374	1217					
271	HKAFT66	946512	281	508 - 831	1218		Ser-51 to Thr-57.			
	HKAFT66	889258	761	508 - 831	1698		Ser-51 to Thr-57.			
	HKAFT66	904790	762	234 - 347	1699		Gln-23 to Asp-28.			
272	HKDBF34	833065	282	69 - 734	1219		Lys-60 to Ala-66, Arg-169 to Cys-186, Asp-199 to Gly-205, Thr-214 to Leu-219.	Xp22	300000, 300066, 300077, 300310, 301220, 302350, 304050, 304110, 306100, 309530, 309585, 312040	
	HKDBF34	587268	763	18 - 332	1700		Lys-60 to Ala-66, Thr-78 to Ser-83.			
273	HKGAT94	762811	283	449 - 745	1220		Asp-32 to Asp-40, Gly-67 to Pro-94.	1,N/A		
	HKGAT94	460631	764	470 - 754	1701					
274	HKGCO27	601969	284	313 - 591	1221		Lys-23 to Lys-29.			

	HKGCO27	581293	765	57 - 197	1702	Val-37 to Gly-42.			
275	HKISB57	625956	285	130 - 417	1222	Ala-23 to Arg-36, His-38 to Ala-46, Pro-50 to Gly-56, Arg-85 to Val-94.	22q12.2	101000, 101000, 101000, 101000, 123620, 138981, 188826, 600850, 601669	
276	HKMLK53	587269	286	20 - 229	1223	Gly-27 to Cys-35.	2q35	118800, 123660, 125660, 193500, 193500, 193500, 193500, 193500, 201460, 205100, 237300, 262000, 600266, 601277	
277	HKMLM11	514788	287	82 - 474	1224	Ala-59 to Thr-68, Glu-72 to Ser-108, Glu-115 to Lys-126.			
278	HKMLP68	1037919	288	130 - 372	1225	Gln-27 to Trp-33, Gly-53 to Trp-61.			
	HKMLP68	880047	766	153 - 395	1703	Gln-27 to Trp-33, Gly-53 to Trp-61.			
	HKMLP68	583524	767	471 - 611	1704	Lys-17 to Ser-47.			
279	HKMMD13	604751	289	342 - 491	1226				
280	HKMND01	527402	290	23 - 175	1227				
281	HL2AC08	610018	291	64 - 906	1228	Thr-24 to Asn-30, Tyr-104 to Asp-122, Ser-128 to Ser-134, Pro-208 to Lys-222, Lys-233 to Pro-262.	14q21.3	182600, 232700, 602086	
282	HL2AG57	695733	292	560 - 802	1229	Gly-4 to His-10, Asp-32 to Val-38.			
283	HLCND09	1172046	293	146 - 478	1230	Glu-37 to Trp-42, Phe-67 to Gly-88, Pro-101 to Leu-110.			
	HLCND09	1035153	768	38 - 463	1705	Glu-37 to Trp-42.			
284	HLDBE54	836041	294	155 - 1108	1231	Glu-39 to Gly-45, Thr-51 to Gly-60, Ala-63 to Gln-77, Gly-122 to Asn-129,			

							Leu-175 to Ser-181, Thr-193 to Pro-199, Thr-236 to Gly-241, Asn-256 to Lys-279, Glu-311 to Leu-317.			
	HLDBE54	600362	769	130 - 399	1706		Glu-39 to Gly-45, Thr-51 to Gly-60, Ala-63 to Gln-82.			
	HLDBE54	800678	770	133 - 1590	1707		Thr-36 to Arg-41, Pro-55 to Pro-60, Pro-67 to Leu-72, Asn-111 to Ser-118, Cys-138 to Asp-144, Asn-290 to Pro-296, Gly-350 to Phe-358, Gly-379 to Glu-384, Gln-399 to Cys-426, Ser-428 to Ser-438.			
285	HLDBX13	815665	295	303 - 470	1232					
286	HLDNA86	1352197	296	238 - 726	1233		Arg-35 to Ala-41, Phe-55 to Arg-61, Lys-152 to His-163.	16p11.2	147781, 172471, 182381	
	HLDNA86	535730	771	45 - 323	1708		Arg-35 to Ala-41.			
287	HLDON23	636083	297	368 - 709	1234		Arg-28 to Gln-36.	15q23	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780	
288	HLDOW79	847396	298	43 - 870	1235		Pro-171 to Gln-179, Leu-218 to Lys-225, Phe-266 to Cys-275.			
289	HLDQC46	847397	299	163 - 426	1236		Lys-76 to Asp-87.	7q11.23	116860, 129900, 233700, 600079	
290	HLDQR62	753742	300	520 - 1005	1237		Arg-122 to Ser-139, Met-144 to Glu-149.	5p15.2- p14.1	123000, 602568	
291	HLDQU79	740755	301	99 - 1142	1238		Leu-68 to Lys-74.	10q21-q22	126090, 129010, 142600, 154545, 250850, 601386, 601493	

							Asp-85 to Glu-92, Pro-125 to Ser-130, Gly-146 to Ala-154, Leu-170 to Lys-177.		
300	HLQDR48	1307726	310	10 - 582	1247	19p13.2	Arg-54 to Asn-65, Glu-80 to Ala-87, Val-170 to Arg-175, Arg-185 to Arg-190.	108725, 120700, 133171, 143890, 147670, 147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843	
	HLQDR48	619979	776	3 - 575	1713				
301	HLTAU74	853614	311	76 - 264	1248		Met-1 to Leu-7, His-26 to Pro-33.		
302	HLTDV50	520231	312	74 - 160	1249				
303	HLTEI25	396672	313	155 - 280	1250				
304	HLTEJ06	543017	314	197 - 364	1251		Gln-25 to Phe-43.		
305	HLTFA64	638242	315	268 - 399	1252				
306	HLTHG37	787530	316	50 - 1006	1253		Asn-36 to Lys-42, Lys-53 to Gln-60, Ile-64 to Ala-77, Ala-128 to Tyr-135, Lys-184 to Ala-199, Leu-245 to Leu-250.		
	HLTHG37	743169	777	313 - 441	1714				
307	HLWAA17	629552	317	436 - 996	1254	1q21	Lys-17 to Glu-27, Gln-40 to Gly-47.	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491	
308	HLWAA88	588485	318	35 - 376	1255	10q23.2	Ala-43 to Trp-57, Ser-81 to Ser-97, Pro-102 to Cys-113.	174900, 203300, 236730	
	HLWAA88	769166	778	51 - 1514	1715		Ala-43 to Trp-57, Ser-81 to Gly-88, Tyr-125 to Asp-134,		

309	HLWAD77	653513	319	326 - 748	1256		Pro-141 to Gly-154, Val-172 to Glu-178, Lys-296 to Gly-305, Leu-307 to Arg-314, Thr-335 to His-341.		
310	HLWAE11	783071	320	28 - 861	1257		Asp-55 to Asp-67, Ser-76 to His-81, Lys-96 to Gly-103, Met-111 to Gly-133, Gln-222 to Ile-228, Lys-250 to Tyr-258.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
311	HLWAO22	587270	321	212 - 1276	1258		Cys-126 to Thr-138, Glu-165 to Gly-172, Thr-189 to Leu-200, Gly-222 to Gly-229, Pro-346 to Lys-354.	12q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
312	HLWAY54	658702	322	38 - 1054	1259		Asp-27 to Ser-32, Pro-52 to Thr-58, Arg-63 to Asn-70, Gln-78 to Gly-83, Thr-107 to Asn-113, Thr-160 to Val-176, Ser-188 to Gly-241, Leu-248 to Pro-265, Tyr-302 to Gly-314.	12p13.31	125370, 601458
313	HLWBH18	1045194	323	107 - 289	1260		Arg-18 to Trp-33, Pro-36 to Ser-47.		
	HLWBH18	889277	779	67 - 249	1716		Arg-18 to Trp-33, Pro-36 to Ser-47.		
314	HLWBI63	566842	324	149 - 340	1261		Met-1 to Pro-12.		
315	HLWBK05	765310	325	280 - 1176	1262		Pro-38 to Ile-45.	12q24.31	181405

316	HLWBY76	797609	326	432 - 1130	1263			7q21.13	129900, 154276, 602136, 602136, 602136, 602447
317	HLWCF05	460619	327	155 - 328	1264				
318	HLYAC95	778075	328	92 - 232	1265				
319	HLYAF80	460622	329	222 - 365	1266				
320	HLYAN59	1352203	330	383 - 613	1267	Val-38 to Cys-45.			
	HLYAN59	553507	780	254 - 418	1717				
321	HLYAP91	553514	331	280 - 531	1268				
322	HLYAZ61	1352163	332	190 - 855	1269	Asp-59 to Asn-65, Lys-72 to Trp-79, Tyr-110 to Val-121, Ala-204 to Leu-216.	3q25.1	222900, 601402	
	HLYAZ61	423998	781	205 - 852	1718	Asp-59 to Asn-65, Lys-72 to Trp-79, Tyr-110 to Val-121, Ala-204 to Asn-215.			
323	HLYBD32	566657	333	98 - 310	1270				
324	HLYES38	638042	334	69 - 287	1271				
325	HMADS41	596831	335	267 - 533	1272		8p23	148370	
326	HMADU73	1352177	336	491 - 2629	1273	Arg-48 to Asn-56, Gly-166 to Ser-175, Tyr-250 to Leu-261, Glu-329 to Gly-355, Ala-378 to Tyr-383, Gly-390 to Tyr-413, Pro-422 to Cys-433, Gln-491 to Tyr-496, Phe-511 to Ser-520, Pro-542 to Arg-551, Arg-568 to Val-582, Gly-595 to Glu-601, Gln-608 to Pro-614, Pro-669 to Pro-678.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	

	HMADU73	467053	782	115 - 348	1719	Arg-48 to Asn-56.		
327	HMAMI15	1352406	337	4 - 1023	1274	Gly-33 to Lys-41, Pro-52 to Lys-60, Asn-81 to Ala-86, Lys-156 to Met-164, Gln-283 to Lys-292, Glu-303 to Gly-308.		
	HMAMI15	1049263	783	3 - 923	1720	Gly-33 to Lys-41, Pro-52 to Lys-60, Asn-81 to Ala-86.		
328	HMDAE65	520338	338	179 - 412	1275	Asp-18 to His-25, Phe-55 to Tyr-69.		
329	HMDAM24	514394	339	109 - 171	1276		17q21.32	109270, 109270, 109270, 109270, 120150, 120150, 120150, 148065, 148080, 154275, 171190, 173470, 185800, 221820, 249000, 253250, 273800, 273800, 600119, 600119, 600525, 601844
330	HMDAQ29	600406	340	180 - 428	1277	Pro-53 to Thr-65.		
331	HMEAI48	1352290	341	36 - 299	1278	Arg-48 to Lys-55, Gly-61 to Glu-70.	15q22	102578, 109700, 151670, 154550, 601780
	HMEAI48	709671	784	95 - 217	1721	Gln-34 to Lys-40.		
332	HMECK83	636035	342	50 - 211	1279			
333	HMEET96	566720	343	121 - 921	1280	Thr-187 to Lys-192, Asn-255 to Leu-262.	1p12	600234, 602094
334	HMIAL37	603201	344	49 - 342	1281	Pro-18 to Lys-26.	11p14.3	602092
335	HMIAP86	726831	345	182 - 1186	1282	Ser-34 to Thr-39, Gln-198 to Leu-205.	Xq24	300046, 300123, 301201, 301835, 301845, 307150, 310490, 311850
336	HMKCG09	548078	346	221 - 370	1283			
337	HMMAH60	562776	347	142 - 294	1284	Ser-20 to Ser-34, Thr-40 to Ser-46.		
338	HMQDF12	566844	348	63 - 491	1285	Ser-66 to Thr-75.	1q25.1- q32.3	145001, 145260, 150292, 208250, 600759, 600995, 601652, 601975
339	HMSBX80	597448	349	169 - 342	1286			

340	HMSFS21	545427	350	28 - 141	1287				
341	HMSGB14	570833	351	138 - 371	1288	Thr-27 to Arg-33.			
342	HMSGT42	383470	352	40 - 315	1289	Pro-65 to Cys-71.	1p31	180069, 180069, 180069, 201450, 248610, 600309, 601676, 602522	
343	HMSHM14	461897	353	103 - 240	1290	Met-1 to Ser-6, Pro-29 to Ser-34.	3q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199, 601199, 601682	
344	HMSHS36	1127691	354	134 - 445	1291	Thr-28 to Arg-49, Ser-57 to Arg-64, Pro-72 to His-78.			
	HMSHS36	1028961	785	162 - 473	1722	Thr-28 to Arg-49, Ser-57 to Arg-64.			
345	HMSJM65	633637	355	111 - 344	1292	Glu-63 to Trp-72.			
346	HMSJU68	427121	356	272 - 421	1293	Met-1 to Gly-7.			
347	HMSKC04	799540	357	133 - 354	1294	Thr-27 to Arg-33, Gly-37 to Ser-42, Pro-52 to Arg-72.			
348	HMTBI36	1301451	358	256 - 3129	1295	Thr-25 to Lys-31, Leu-116 to Glu-121, Asp-153 to Thr-161, Gly-164 to Arg-170, Ser-216 to Gly-226, Pro-229 to Gln-237, Arg-246 to Glu-260, Arg-291 to Gln-298, Arg-341 to Glu-348, Lys-356 to Ser-364, Gln-387 to Phe-398, Leu-429 to Phe-435, Trp-455 to Ile-463, Tyr-489 to Ala-496, Thr-518 to Ala-525,	3p21.31	116806, 168468, 182280, 212138, 600163	

								Lys-542 to Leu-549, Pro-627 to Ile-632, Ser-637 to Arg-651, Ser-821 to Gly-827, Gln-921 to Ser-927, Arg-932 to Ile-941, Ser-945 to Arg-957.			
	HMTBI36	866466	786	255 - 3128	1723			Thr-25 to Lys-31, Leu-116 to Glu-121, Asp-153 to Thr-161, Gly-164 to Arg-170, Ser-216 to Gly-226, Pro-229 to Gln-237, Arg-246 to Glu-260, Arg-291 to Gln-298, Arg-341 to Glu-348, Lys-356 to Ser-364, Gln-387 to Phe-398, Leu-429 to Phe-435, Trp-455 to Ile-463, Tyr-489 to Ala-496, Thr-518 to Ala-525, Lys-542 to Leu-549, Pro-627 to Ile-632, Ser-637 to Arg-651, Ser-821 to Gly-827, Gln-921 to Ser-927, Arg-932 to Ile-941, Ser-945 to Arg-957.			
349	HMUAP70	872208	359	183 - 845	1296		5q31.3	Cys-15 to Gly-36.		131400, 159000, 180071, 181460, 272750, 600807, 601596, 602089	
	HMUAP70	723302	787	413 - 724	1724			Lys-83 to Thr-90.			
	HMUAP70	778820	788	251 - 844	1725						

	HMUAP70	674913	789	62 - 379	1726				
	HMUAP70	646810	790	60 - 263	1727				
	HMUAP70	381964	791	60 - 128	1728				
350	HMVBN46	626667	360	10 - 156	1297	His-29 to Asn-34.			
351	HMWEB02	638159	361	106 - 381	1298	Ser-46 to Gly-51.			
352	HMWFO02	1352198	362	7 - 210	1299	Pro-60 to Arg-68.			
	HMWFO02	542061	792	20 - 202	1729				
353	HMWGY65	1308287	363	42 - 1514	1300	Pro-18 to Gly-30, Arg-98 to Cys-103, Glu-106 to Arg-111, Ser-117 to Gly-122, Glu-132 to Ala-140, Pro-247 to Arg-252, Val-301 to Ala-308, Pro-334 to Ser-339, Arg-348 to Thr-354, Glu-427 to Gly-439, Gly-442 to Glu-448, Ala-457 to Gly-463.			
	HMWGY65	794987	793	42 - 608	1730	Pro-18 to Gly-30.			
354	HNEAC05	519340	364	101 - 418	1301	Met-1 to Gly-8, Thr-33 to Cys-38, Arg-79 to Arg-89.	8q22.2	148900, 216550	
355	HNEEB45	1036397	365	139 - 312	1302	Thr-43 to Arg-51.			
	HNEEB45	842650	794	226 - 399	1731				
356	HNFFC43	753337	366	488 - 691	1303	Asp-21 to Ser-29.	12q13.12	120140, 120140, 120140, 120140, 120140, 120140, 126337, 600808, 601284, 601769, 602116	
357	HNFIU96	460611	367	170 - 409	1304				
358	HNFIJF07	577013	368	86 - 286	1305	Val-25 to Gly-33.			
359	HNFIJH45	410107	369	275 - 478	1306				
360	HNGAK47	561488	370	89 - 211	1307				
361	HNGAP93	520227	371	50 - 151	1308				

362	HNGBC07	1037631	372	81 - 830	1309	Glu-30 to Arg-44, Asp-58 to Cys-67, Pro-70 to Pro-75.	22	
	HNGBC07	904311	795	122 - 256	1732	Gly-27 to Ser-42.		
	HNGBC07	904812	796	55 - 189	1733	Gly-27 to Ser-42.		
363	HNGBT31	408334	373	224 - 538	1310	Ala-83 to Thr-91.		
364	HNGDG40	532617	374	13 - 393	1311	Gln-2 to Gly-10, Asp-77 to Phe-82.		
365	HNGDJ72	532619	375	185 - 523	1312	Asp-15 to Tyr-21, Pro-29 to Asn-39.		
366	HNGDU40	597526	376	333 - 488	1313	Gly-18 to Ser-27, Gly-46 to Asp-51.		
367	HNGEO29	532622	377	98 - 232	1314	Met-1 to Arg-8, Leu-35 to Glu-41.		
368	HNGEP09	499076	378	72 - 320	1315	Asp-45 to Thr-50.		
369	HNGHR74	553443	379	53 - 178	1316			
370	HNGIH43	410179	380	178 - 300	1317		10,C	
371	HNGIJ31	519120	381	135 - 245	1318	Pro-18 to Glu-25.		
372	HNGIQ46	526651	382	221 - 433	1319	Ala-28 to Gly-34, Pro-57 to Thr-66.		
373	HNGJE50	561568	383	77 - 217	1320			
374	HNGJO57	579737	384	87 - 245	1321			
375	HNGJP69	604891	385	321 - 545	1322			
376	HNGJT54	498272	386	172 - 276	1323			
377	HNGKN89	834857	387	436 - 597	1324			
378	HNGOM56	836064	388	391 - 558	1325	Pro-25 to Glu-40, Lys-50 to His-55.		
379	HNGOU56	843515	389	317 - 496	1326	Ser-34 to Thr-40.		
380	HNGOW62	892160	390	167 - 331	1327	Ser-22 to His-40.	10p11.1	
381	HNHAH01	496115	391	328 - 492	1328			
382	HNHCX60	520300	392	158 - 223	1329			
383	HNHCY64	520294	393	258 - 392	1330	Gly-33 to Asn-44.		

384	HNHCY94	520298	394	78 - 221	1331				
385	HNHDW38	531908	395	231 - 368	1332				
386	HNHDW42	410114	396	168 - 383	1333				
387	HNHED17	1352204	397	274 - 426	1334	Lys-36 to Asp-42, Pro-45 to Tyr-51.			
	HNHED17	553511	797	282 - 428	1734	Lys-36 to Asp-42.			
388	HNHEI42	985880	398	52 - 162	1335				
	HNHEI42	902442	798	28 - 138	1735				
	HNHEI42	842223	799	166 - 252	1736				
	HNHEI42	823723	800	331 - 435	1737	Pro-10 to Cys-19.			
389	HNHFO29	463568	399	160 - 699	1336	Lys-97 to Gln-106, Gln-112 to Pro-118, Pro-123 to Lys-130, Arg-153 to Gly-158.			
390	HNHFR04	646709	400	71 - 307	1337				
391	HNHFU32	562728	401	175 - 333	1338	Ala-35 to Asp-44.			
392	HNHOD46	843488	402	12 - 251	1339				
393	HNHOG73	835026	403	342 - 497	1340	Ala-35 to Leu-43.			
394	HNHPD10	834927	404	291 - 413	1341				
395	HNTBI57	570877	405	210 - 386	1342	Met-1 to Trp-15, Thr-52 to Met-58.			
396	HNTCE26	1160395	406	111 - 1316	1343	Tyr-2 to Gly-15, Trp-192 to Asp-199, Lys-248 to Leu-253, Arg-330 to Lys-336, Gln-354 to Val-364, Val-383 to Ser-392.			
	HNTCE26	853373	801	57 - 422	1738	Arg-75 to Lys-81, Gln-99 to Asp-109.			
397	HNTNC20	700627	407	270 - 926	1344	Gln-23 to Gly-30, Gln-35 to Gln-43, Leu-73 to Glu-84.			

								Arg-125 to Pro-133, Ser-140 to Thr-145, Thr-153 to Thr-164.			
398	HNTNI01	1352285	408	307 - 534	1345			Lys-71 to Trp-76.			
	HNTNI01	699848	802	306 - 455	1739						
399	HNTSY18	1041383	409	257 - 526	1346		7	Pro-53 to Arg-59, Ala-64 to Cys-69.			
	HNTSY18	897950	803	420 - 656	1740			Pro-13 to Ser-19, Glu-25 to Glu-31, Pro-44 to Gly-53, Gly-74 to Arg-79.			
400	HOAAC90	1301202	410	33 - 347	1347			Trp-25 to Pro-33, Gln-88 to Pro-93.			
	HOAAC90	518979	804	38 - 352	1741			Trp-25 to Pro-33, Gln-88 to Pro-93.			
401	HOACB38	520201	411	63 - 185	1348						
402	HOCNF19	835049	412	166 - 429	1349			Thr-45 to Pro-56, Ser-66 to Lys-74.			
403	HODDF13	684307	413	46 - 171	1350			Thr-28 to Ser-40.			
404	HODDN65	520348	414	251 - 313	1351						
405	HODDN92	422913	415	434 - 541	1352						
406	HODDO08	790333	416	725 - 1042	1353			Gly-96 to Cys-106.			
407	HODDW40	579256	417	139 - 261	1354						
408	HODEJ32	835027	418	358 - 489	1355						
409	HODFN71	1194866	419	1 - 477	1356			Lys-50 to Phe-57, Ser-70 to Arg-77, Tyr-81 to Ser-87, Pro-112 to Thr-117.			
	HODFN71	834999	805	27 - 473	1742			Lys-39 to Phe-46, Ser-59 to Arg-66, Tyr-70 to Ser-76, Pro-101 to Thr-106.			

410	HODGE68	834907	420	87 - 266	1357	Leu-2 to Gln-7.			
411	HOEBK34	768325	421	149 - 643	1358	Asp-18 to Arg-31, Leu-38 to Gln-52.	9q22.3	162400, 227645, 229700, 278700, 601309, 602088	
	HOEBK34	509951	806	68 - 334	1743	Asp-18 to Arg-31, Leu-38 to Leu-53.			
412	HOEBZ89	828177	422	19 - 1020	1359	Lys-34 to Glu-39, Ile-47 to Ser-53, Pro-106 to Leu-111, Pro-140 to Gly-146, Glu-195 to Gly-204, Leu-281 to Thr-288, Glu-291 to Arg-297, Tyr-302 to Ile-308.			
413	HOEDB32	634994	423	104 - 784	1360	Pro-34 to Ser-43, Glu-54 to Ser-60.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403	
414	HOEDE28	1036480	424	248 - 601	1361	Arg-19 to Met-24, His-64 to Pro-75, Glu-82 to Leu-88.	15		
	HOEDE28	900015	807	387 - 449	1744				
415	HOEDH84	748236	425	256 - 1467	1362	Ser-74 to Ala-84, Gln-156 to Tyr-161, Tyr-184 to Asn-189, Ser-218 to Ile-223, Pro-299 to Ser-308, His-359 to Thr-368, Tyr-390 to Asp-404.			
416	HOEFV61	833079	426	64 - 606	1363	Thr-49 to Arg-54, Leu-147 to Asp-153.			
417	HOFMQ33	1184465	427	49 - 1503	1364	Leu-37 to Gly-44, Thr-137 to Leu-144, Ala-178 to Asn-184, Asp-194 to Val-201,			

							Leu-252 to Glu-258, Asp-280 to Tyr-293, Asn-296 to Thr-301, Asp-322 to Asp-348, Asn-363 to Ser-368, His-370 to Thr-378, Asn-380 to Cys-386, Glu-391 to Cys-399, Leu-421 to Arg-426, Glu-454 to Tyr-459.			
	HOFMQ33	919896	808	48 - 1502	1745		Leu-37 to Gly-44, Pro-46 to Gly-51, Thr-137 to Leu-144, Ala-178 to Asn-184, Asp-194 to Val-201, Leu-252 to Glu-258, Asp-280 to Tyr-293, Asn-296 to Thr-301, Asp-322 to Asp-348, Asn-363 to Ser-368, His-370 to Thr-378, Asn-380 to Cys-386, Glu-391 to Cys-399, Leu-421 to Arg-426, Glu-454 to Tyr-459.			
	HOFMQ33	906694	809	78 - 875	1746		Leu-37 to Gly-43.			
	HOFMQ33	902639	810	724 - 741	1747					
	HOFMQ33	702186	811	123 - 374	1748		Met-2 to Ser-9.			
418	HOFMT75	911180	428	83 - 1315	1365		Thr-30 to Met-36, His-121 to Thr-136, Leu-231 to Gly-236, Thr-248 to Pro-256, Gly-342 to Thr-353.			

	HOFMT75	905365	812	83 - 427	1749	Thr-30 to Met-36.		
	HOFMT75	892308	813	1225 - 1500	1750			
	HOFMT75	892291	814	129 - 1232	1751	Thr-30 to Met-36, Pro-51 to Ser-56, His-121 to Thr-136, Leu-233 to Gly-243, Thr-250 to Ser-258, Thr-265 to Trp-270.		
419	HOFNC14	1352378	429	79 - 297	1366			
	HOFNC14	899292	815	155 - 373	1752			
420	HOFND85	847424	430	167 - 2047	1367	Asp-216 to Gly-224, Asp-268 to Asn-274, Thr-285 to Lys-290, Asp-339 to Pro-345, Ile-356 to Pro-361, Arg-371 to Asn-378, Ala-408 to Tyr-417, Pro-429 to Gln-434, Arg-461 to Pro-466, Ala-475 to Ala-482.		
421	HOFNY91	847425	431	64 - 312	1368	Ser-15 to Thr-31.	7q11.23	116860, 129900, 233700, 600079
422	HOFOC33	1186156	432	76 - 1167	1369	Thr-28 to Tyr-40, Gln-61 to Ser-68, Glu-74 to Lys-95, Glu-163 to Thr-169, Arg-197 to His-204, Ser-210 to Phe-216, Thr-272 to Asp-278, Arg-286 to Gly-291, Cys-310 to Ala-316.		
	HOFOC33	967554	816	81 - 419	1753	Thr-28 to Tyr-40, Gln-61 to Ser-68,		

									Thr-398 to His-406, Trp-430 to Leu-435, Glu-499 to Gly-504.				
	HOGCK20	664499	825	53 - 1717	1762				Pro-24 to Arg-30, Thr-51 to Val-62, Asn-128 to Lys-134, Gln-196 to Trp-201, Thr-229 to Glu-235, Pro-241 to Tyr-247, Leu-279 to Pro-290, Ser-347 to Ser-355, Pro-361 to Gln-367, Thr-397 to His-405, Trp-429 to Leu-434, Gln-510 to Val-518.				
426	HOGCK63	895880	436	514 - 1254	1373				Thr-60 to Ala-65, Leu-94 to Glu-99, Cys-182 to Trp-188.				
	HOGCK63	902295	826	1455 - 1472	1763								
427	HOGCS52	919898	437	25 - 1383	1374				Met-28 to Arg-34, Thr-154 to Arg-173, Gly-180 to Tyr-185, Leu-226 to Asp-231, Leu-272 to Lys-277, Thr-378 to Asn-383, Asp-421 to Tyr-433, Leu-442 to Ala-451.				
	HOGCS52	907118	827	30 - 1391	1764				Met-28 to Arg-34, Thr-154 to Arg-173, Gly-180 to Tyr-185, Leu-226 to Asp-231, Leu-272 to Lys-277, Thr-378 to Asn-383.				

								Asp-421 to Arg-431.			
	HOGCS52	867965	828	2 - 289	1765			Ala-1 to Ala-6.			
428	HOHBB49	833080	438	148 - 294	1375			Pro-17 to His-22, Ser-29 to Ser-39.			
429	HOHBC68	603968	439	348 - 734	1376			Pro-37 to Asp-53.			
430	HOHBY12	625973	440	232 - 831	1377			Pro-33 to Phe-43, Pro-48 to Lys-54, His-61 to Val-66.			
431	HOHBY44	873264	441	170 - 724	1378		15	Glu-23 to Gln-30, Asn-42 to Gly-65, Thr-84 to Lys-100, Glu-105 to Ser-110, Arg-132 to Phe-138, Pro-159 to Arg-172.			
	HOHBY44	873263	829	2 - 232	1766						
	HOHBY44	785886	830	54 - 305	1767			Cys-25 to Asn-36.			
432	HOHCC74	547977	442	327 - 473	1379		19q13.4		134790, 191044, 600040, 600138		
433	HOHCH55	827481	443	221 - 1702	1380		13q33	Met-1 to Phe-6, Arg-44 to Arg-52, His-64 to Cys-69, Tyr-99 to Gln-147, His-158 to Gly-169, Phe-177 to Asp-182, Cys-194 to Cys-202, Gly-213 to Phe-218, Pro-224 to Gly-236, Asp-254 to Trp-261, Asp-263 to Ala-303, Trp-305 to Cys-316, Lys-326 to Asp-332, Pro-334 to Cys-343, Pro-350 to Asp-370,	133530, 601295		

	HOSDJ25	566845	833	146 - 268	1770	Gly-18 to Lys-23, Pro-31 to Gly-38.			
436	HOSEG51	545809	446	232 - 540	1383	Ser-59 to Glu-67.			
437	HOSFD58	614040	447	56 - 1927	1384	Asn-15 to Trp-20, Ser-36 to Gly-41, Pro-103 to Val-110, Pro-134 to Arg-143, Leu-173 to Arg-178, Ser-190 to Ala-197, His-314 to Arg-319, Arg-354 to Asn-362, Asp-391 to Arg-397, Glu-402 to Asp-409, Asp-434 to Leu-439, Glu-441 to Arg-446, Gly-455 to Asp-462, Pro-528 to His-541, Asn-566 to Arg-571, Tyr-574 to Glu-581, Thr-589 to Glu-603.	4q24	157147, 248510	
	HOSFD58	383513	834	477 - 659	1771	Gly-28 to Leu-42, Met-52 to Leu-58.			
438	HOUCQ17	429229	448	508 - 3408	1385	Gly-8 to Leu-14, Met-18 to Phe-30.			
439	HOUDK26	565393	449	214 - 735	1386	Ser-139 to Ser-144, Phe-153 to Leu-159, Gln-162 to Ser-170.			
440	HOVCA92	527644	450	181 - 369	1387				
441	HPASA81	1352382	451	19 - 1818	1388	Asn-46 to Cys-51, Glu-56 to Ser-62, Asp-73 to Glu-79, Phe-158 to Pro-168, Glu-180 to Ile-185,			

							Asp-209 to Asn-214, Phe-229 to Asn-234, Asp-243 to Arg-249, Asn-288 to Cys-301, Arg-322 to Thr-330, Cys-435 to Thr-440, Gly-454 to Lys-462, Ser-498 to Gln-507, Ser-511 to Asp-525, Leu-533 to Gly-541, His-550 to Asn-560, Gln-588 to Tyr-600.			
	HPASA81	900548	835	14 - 958	1772		Asn-46 to Cys-51, Glu-56 to Ser-62, Asp-73 to Glu-79, Phe-158 to Pro-168, Glu-180 to Ile-185, Asp-209 to Asn-214, Phe-229 to Asn-234, Asp-243 to Arg-249, Asn-288 to Asn-293, Lys-297 to Gln-302.			
	HPASA81	801923	836	124 - 342	1773		Asn-46 to Cys-51, Glu-56 to Ser-62.			
442	HPBCU51	411080	452	86 - 445	1389		Leu-20 to Ala-26, Arg-32 to Arg-39, Thr-104 to Gly-112.	9q34.3	120215, 120215, 190198	
443	HPDDC77	1306899	453	51 - 446	1390		Arg-29 to Pro-37, Gln-46 to Val-56.	5q15	162150	
	HPDDC77	422936	837	510 - 905	1774		Arg-29 to Pro-37, Gln-46 to Val-56.			
444	HPDWP28	1094609	454	143 - 292	1391		Thr-35 to Gly-48.	8		
	HPDWP28	1047702	838	133 - 282	1775		Thr-35 to Gly-48.			

445	HPEAD48	520367	455	203 - 496	1392	Gln-51 to Thr-61, Ser-65 to Thr-71, Pro-85 to Gln-91.			
446	HPEBE79	519003	456	79 - 126	1393				
447	HPFCL43	535710	457	21 - 260	1394	Pro-14 to Asp-25, Leu-51 to Val-63.	5		
448	HPFDG48	542227	458	283 - 426	1395		Xp11.23- p11.22	300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060	
449	HPIAQ68	833082	459	20 - 208	1396				
450	HPIBO15	1310868	460	128 - 763	1397	Asp-40 to Glu-50, Ser-59 to Gly-69, Leu-109 to Lys-117, Tyr-130 to Leu-137, Leu-140 to Glu-160, Gly-202 to Tyr-208.			
	HPIBO15	590741	839	127 - 648	1776	Asp-40 to Glu-50, Ser-59 to Gly-69, Ala-98 to His-105, Arg-108 to Glu-114, Pro-124 to Ser-138, Ala-143 to Gly-154.			
451	HPICB53	1042309	461	170 - 325	1398		11,12		
	HPICB53	867835	840	163 - 318	1777				
452	HPJBK12	1011467	462	126 - 272	1399		4,8		
	HPJBK12	525375	841	119 - 265	1778				
	HPJBK12	796925	842	969 - 1001	1779				
	HPJBK12	699587	843	509 - 523	1780				
453	HPJCL22	1146674	463	86 - 325	1400	Arg-50 to Leu-56.	10,2		
	HPJCL22	1034817	844	136 - 378	1781	Arg-50 to Leu-56.			
	HPJCL22	1046434	845	232 - 666	1782	Thr-43 to Asp-59, Gly-88 to Gly-94.			

	HPWAY46	789574	852	178 - 435	1789				
466	HPWDJ42	722246	476	149 - 310	1413	Pro-21 to Pro-26, Arg-31 to Asn-37.			
	HPWDJ42	709662	853	149 - 313	1790	Pro-21 to Pro-26, Arg-31 to Asn-37.			
	HPWDJ42	692213	854	161 - 301	1791	Pro-21 to Pro-26, Arg-31 to Lys-37.			
467	HPZAB47	585702	477	34 - 177	1414	Lys-32 to Lys-38.			
468	HRAAB15	658717	478	35 - 514	1415	Asn-49 to Gln-54, Glu-150 to Asp-159.			
469	HRABA80	882176	479	144 - 452	1416	Ala-30 to Gly-36, Asp-45 to Trp-50, Lys-65 to Cys-71, Pro-80 to Cys-87.			
	HRABA80	588460	855	130 - 438	1792	Ala-30 to Gly-36, Asp-45 to Trp-50, Lys-65 to Cys-71, Pro-80 to Cys-87.			
470	HRACD15	871221	480	252 - 410	1417				
	HRACD15	706332	856	252 - 413	1793				
471	HRACD80	1309774	481	196 - 1923	1418	Thr-29 to Ser-37, His-89 to Gly-94, Asn-124 to Gln-130, Ala-163 to Val-168, Cys-196 to Arg-201, Gln-244 to Gln-264, His-288 to Tyr-294, Leu-314 to Gln-319, Ala-392 to Ser-399, Pro-412 to Asp-419, Ala-452 to Pro-460, Arg-466 to Thr-473.			

	HRACD80	882163	857	191 - 1915	1794	Lys-32 to Ser-37, His-89 to Gly-94, Asn-124 to Gln-130, Ala-163 to Val-168, Cys-196 to Arg-201, Gln-244 to Gln-264, His-288 to Tyr-294, Leu-314 to Gln-319, Ala-392 to Ser-399, Pro-412 to Asp-419, Ala-452 to Pro-460, Arg-466 to Thr-473.		
	HRACD80	740762	858	191 - 631	1795	Gly-31 to Thr-38, Arg-84 to His-89, Pro-122 to Pro-129.		
472	HRDDV47	637650	482	146 - 976	1419	Thr-29 to Pro-34.		
473	HRDFD27	567004	483	82 - 333	1420			
474	HROAJ03	567005	484	19 - 597	1421	Lys-41 to Arg-47, Asp-125 to Lys-139, Ser-177 to Glu-185.		
475	HRTAE58	519326	485	244 - 420	1422	Phe-48 to Cys-54.		
476	HSATR82	531973	486	74 - 199	1423			
477	HSAUK57	772554	487	322 - 570	1424	Leu-40 to Arg-48, Thr-62 to Thr-67.	5	
	HSAUK57	490870	859	327 - 473	1796			
478	HSAUL82	490879	488	140 - 289	1425	Thr-25 to Asp-38.		
479	HSAVH65	545459	489	104 - 406	1426	Ser-58 to His-64.		
480	HSAVK10	561435	490	131 - 253	1427			
481	HSAWD74	460527	491	142 - 570	1428	Leu-51 to Gly-77, Ile-117 to Pro-125.	7	
	HSAWD74	371416	860	122 - 256	1797	Thr-25 to Cys-30, Pro-35 to Arg-42.		

482	HSAWZ41	580872	492	98 - 271	1429	Ile-46 to Tyr-56.			
483	HSAXA83	545051	493	92 - 316	1430		1p13.1	102770, 201810, 601414, 601691, 601691, 601691, 601691, 601691, 601718, 602094	
484	HSAYB43	604143	494	89 - 226	1431	Asp-29 to Tyr-34.			
485	HSAYM40	462797	495	190 - 381	1432				
486	HSDAJ46	692358	496	299 - 1087	1433	Tyr-24 to His-32, Pro-38 to Ala-44, Pro-66 to Glu-75, His-111 to Gly-116, Tyr-139 to Ser-146, Thr-176 to Ser-181, Lys-239 to Lys-249.			
487	HSDEK49	1352253	497	60 - 1256	1434	Val-29 to Val-37, Asp-71 to His-76, Gln-78 to Gly-84, Met-105 to His-110, Trp-117 to Asn-123, Lys-179 to Pro-187, Gly-218 to Asp-224, Leu-237 to Ala-243, Thr-256 to Asp-268, Ser-275 to Lys-280, Arg-308 to Glu-314, Glu-326 to Glu-332, Cys-343 to Asp-359.	Xq12- q13.3	300011, 300011, 300011, 300127, 305450, 309605, 313700, 313700, 313700, 313700, 313700, 314580	
	HSDEK49	625998	861	126 - 1043	1798	Val-29 to Val-37, Asp-71 to His-76, Gln-78 to Gly-84, Met-105 to His-110, Trp-117 to Gly-122, Gln-136 to Lys-141, Leu-143 to Ala-149, Thr-162 to Asp-174,			

488	HSDER95	664502	498	72 - 287	1435	Ser-181 to Lys-186, Arg-214 to Glu-220, Glu-232 to Glu-238, Cys-249 to Asp-265.		
489	HSDEZ20	1352287	499	58 - 423	1436	Pro-42 to Lys-49, Lys-56 to Lys-71. Phe-8 to Ser-13, Val-81 to Arg-87, Asp-98 to Pro-104.		
	HSDEZ20	704101	862	66 - 359	1799	Phe-8 to Ser-13, Ala-84 to Ser-90.		
490	HSDFW45	589974	500	118 - 330	1437			
491	HSDDJA15	795252	501	247 - 705	1438	Thr-32 to Lys-40, Lys-146 to Glu-152.		
492	HSDIJ82	460602	502	79 - 237	1439	Pro-45 to Gln-52.		
493	HSDJL42	1036471	503	84 - 737	1440	His-170 to Pro-181, Ser-204 to Pro-210.	5	
	HSDJL42	904821	863	27 - 686	1800	His-172 to Pro-183, Ser-206 to Pro-212.		
	HSDJL42	905623	864	78 - 737	1801			
494	HSDJM31	491112	504	351 - 473	1441		8q21.3- q22.1	216550, 222745
495	HSDSB09	1301498	505	16 - 423	1442	Glu-33 to Glu-56, Thr-75 to Cys-81.		
	HSDSB09	463645	865	22 - 387	1802	Glu-33 to Glu-56, Thr-75 to Cys-81.		
496	HSDSE75	545057	506	160 - 705	1443	Tyr-15 to Leu-59, Ala-68 to Asp-85, Pro-87 to Asn-96, His-120 to Lys-129, Ser-153 to Gln-170.		
497	HSDZR57	651375	507	27 - 212	1444	Glu-50 to Glu-61.	19q13.33	134790, 600040

498	HSIAX21	612823	508	177 - 392	1445	Leu-23 to Met-30.	4	
499	HSIAS17	1352191	509	431 - 1201	1446	Ser-95 to Glu-102, Ala-110 to Tyr-115, Gln-176 to Ile-184, Gln-192 to Asp-203, Ala-210 to Ile-220, Lys-229 to Arg-240, Leu-242 to Val-251.		
	HSIAS17	514183	866	108 - 764	1803	Met-99 to Ala-114.		
500	HSICV24	1352248	510	117 - 884	1447	Asn-22 to Ile-29, Glu-41 to Lys-50, Arg-58 to Gln-73, Gln-78 to Glu-89, Val-91 to Glu-101, Gln-109 to Arg-128, Glu-133 to Thr-139, Leu-146 to Cys-156, Pro-163 to Trp-168, Tyr-174 to Glu-198, Leu-202 to Lys-213, Gln-216 to Asn-223, Leu-230 to Gly-238, Gln-241 to Trp-246.	13q13.3	600631
	HSICV24	612877	867	150 - 326	1804	Asn-22 to Ile-29, Ala-33 to Arg-51.		
501	HSIDJ81	589447	511	8 - 184	1448	Glu-37 to Gly-45.		
502	HSIDX71	1033671	512	200 - 379	1449	Pro-53 to Glu-59.		
	HSIDX71	902162	868	200 - 379	1805	Pro-53 to Glu-59.		
503	HSJBQ79	1304677	513	41 - 586	1450	Gly-16 to Arg-32, Ala-42 to Asn-50, Glu-66 to Gln-76, Arg-85 to Gly-94.	19q13.33	134790, 600040

							Ser-305 to Ala-318, Val-320 to Arg-327, Pro-342 to Thr-351, Thr-383 to Thr-399, Leu-414 to Lys-435, Thr-449 to Ala-457, Gly-461 to Asn-479, Gly-483 to Gln-498, Asn-504 to Val-509.				
	HSKDA27	872570	873	12 - 1673	1810		Gly-27 to Arg-32, Thr-51 to Glu-58, Ser-60 to Ser-75, Arg-83 to Asp-92, Arg-99 to Ala-105, Asp-116 to Arg-122, Gly-290 to Ala-314, Val-316 to Arg-323, Pro-338 to Arg-345, Thr-358 to His-375, Arg-403 to Ser-408, Ser-420 to Ser-436, Thr-447 to Ala-455, Gly-459 to Asn-477, Gly-481 to Gln-496, Ser-501 to Arg-512, Lys-530 to Lys-554.				
506	HSKHZ81	1307105	516	64 - 807	1453		Gly-76 to Leu-83, Ala-108 to Glu-113, Ala-126 to Lys-132, Gly-145 to Leu-151, Gln-161 to Val-166, Ala-180 to Gln-185, Gly-190 to Ala-198,				

	HSKHZ81	552233	874	57 - 800	1811	Asn-203 to Gly-216. Gly-76 to Leu-83, Ala-108 to Glu-113, Ala-126 to Lys-132, Gly-145 to Leu-151.		
507	HSKNB56	548077	517	484 - 741	1454	Thr-23 to Pro-29, Thr-68 to Pro-76.		
508	HSLCQ82	1352226	518	226 - 477	1455			
	HSLCQ82	589526	875	233 - 406	1812			
509	HSLJG37	1016920	519	114 - 242	1456		15	
	HSLJG37	852244	876	206 - 334	1813			
	HSLJG37	895206	877	1331 - 1351	1814			
510	HSODE04	906081	520	202 - 327	1457	Thr-24 to Leu-33.	6	
	HSODE04	906498	878	300 - 425	1815	Thr-24 to Leu-33.		*
511	HSPBF70	793744	521	429 - 722	1458	Arg-54 to Leu-60, Ala-73 to Gly-78.		
512	HSQEO84	1306702	522	87 - 743	1459	Ala-19 to Val-31, Arg-38 to Gly-49, Ala-61 to Lys-66, Tyr-68 to Pro-78, Gly-116 to Ala-121, Asp-154 to Ser-162, Glu-173 to Gln-186, Phe-194 to Gly-203, Pro-207 to Val-212.	2q31.3	100690, 142989, 156232, 178600, 600258
	HSQEO84	602258	879	91 - 747	1816	Ala-19 to Val-31, Arg-38 to Gly-49, Ala-61 to Lys-66, Tyr-68 to Pro-78, Gly-116 to Ala-121, Asp-154 to Ser-162, Glu-173 to Gln-186,		

									Phe-194 to Gly-203, Pro-207 to Val-212.			
	HSQEO84	401251	880	86 - 256	1817				Ala-19 to Val-31, Arg-38 to Asp-50.			
513	HSSAJ29	630636	523	103 - 246	1460					10q22	126090, 129010, 142600, 250850, 601386, 601493	
514	HSSDX51	566879	524	133 - 285	1461							
515	HSSFT08	589978	525	125 - 301	1462							
516	HSSGD52	1352343	526	344 - 2161	1463				Pro-7 to Cys-12, Lys-48 to Tyr-62, Arg-182 to His-187, Leu-189 to Glu-196, Thr-211 to Gly-226, Leu-270 to Thr-275, Gly-278 to Gly-289, Pro-444 to Asn-449, Glu-453 to Lys-461, Gly-491 to Thr-496, Ser-525 to Trp-532.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	
	HSSGD52	845666	881	338 - 2155	1818				Pro-7 to Cys-12, Lys-48 to Tyr-62, Arg-182 to His-187, Leu-189 to Glu-196, Thr-211 to Gly-226, Leu-270 to Thr-275, Gly-278 to Gly-289, Pro-444 to Asn-449, Glu-453 to Lys-461, Gly-491 to Thr-496, Ser-525 to Trp-532.			
517	HSSGG82	618535	527	203 - 391	1464							
518	HSSJC35	1306937	528	62 - 949	1465				Pro-40 to Arg-50, Ser-72 to Arg-77,			

								His-82 to Leu-91, Gln-171 to Glu-189, Val-203 to Gly-222, Pro-263 to Thr-269, Ser-282 to Trp-287.			
	HSSJC35	745409	882	55 - 939	1819			Pro-40 to Arg-50, Ser-72 to Arg-77, His-82 to Leu-91, Gln-171 to Glu-189, Val-203 to Gly-222, Pro-263 to Thr-269, Ser-282 to Trp-287.			
	HSSJC35	716424	883	66 - 176	1820			Arg-32 to Leu-37.			
519	HSTBJ86	753250	529	120 - 371	1466			Pro-38 to Gly-44, Phe-56 to Thr-64.			
520	HSUBW09	413246	530	153 - 323	1467			Asp-23 to Gly-29.			
521	HSVAM10	520328	531	46 - 201	1468						
522	HSVAT68	637680	532	63 - 329	1469			Met-33 to Pro-39, Ser-74 to Trp-79.			
523	HSVBU91	596868	533	256 - 528	1470			Asp-26 to Asn-31, Ser-37 to His-49, Ala-65 to Ser-73.	7q11.23	116860, 129900, 233700, 600079	
524	HSXCG83	944388	534	101 - 901	1471						
	HSXCG83	830673	884	211 - 729	1821			Phe-84 to Asn-90.			
525	HSXEQ06	1016924	535	123 - 305	1472			Ser-23 to Trp-30.	14		
	HSXEQ06	889664	885	136 - 318	1822			Ser-23 to Trp-30.			
	HSXEQ06	895602	886	1271 - 1324	1823						
526	HSXGI47	886200	536	87 - 260	1473						
527	HSYAV50	847358	537	155 - 2173	1474			Cys-28 to Pro-33, Arg-41 to Pro-52, Glu-118 to Glu-127, Tyr-130 to Arg-135.			

528	HSYAV66	686437	538	186 - 395	1475	Ser-224 to Arg-230, Ser-322 to His-329, Glu-388 to Ala-396, Pro-404 to Pro-411, Ser-443 to Thr-454, Val-456 to Arg-462, Asn-500 to Arg-507.	12q15-q21	181430, 217300, 600698, 600698, 600698, 600808, 602116	
529	HSYAZ50	1027673	539	131 - 301	1476		2		
	HSYAZ50	852318	887	345 - 515	1824				
	HSYAZ50	902235	888	723 - 1040	1825	Arg-1 to Asn-9, Pro-24 to Ile-32, Val-95 to Cys-106.			
	HSYAZ50	882732	889	2 - 838	1826	Glu-1 to Glu-8, Pro-38 to Gly-45, Leu-53 to Gly-60, Glu-112 to Arg-117, Lys-153 to Lys-163, Trp-245 to Ala-251, Phe-259 to Gly-273.			
530	HSYAZ63	1177537	540	448 - 1749	1477	Gln-14 to Thr-21, Arg-26 to Pro-31, Leu-43 to Pro-50, Leu-81 to Asp-88, Pro-153 to Thr-158, Leu-211 to Thr-222, Asp-228 to Asn-233, Pro-273 to Glu-282.	16q22	103850, 114835, 121360, 217800, 218030	
	HSYAZ63	862063	890	215 - 337	1827	Ser-22 to His-32.			
531	HSYBG37	1056317	541	47 - 964	1478	Ser-47 to Pro-57, Ser-77 to Glu-82,	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 186580, 191092, 600140,	

							Thr-90 to Trp-98, Arg-124 to Lys-137, Ala-183 to Glu-192, Lys-220 to Gln-229, Asn-244 to Arg-258, Thr-271 to Asn-278, Glu-285 to Gly-297.		600273, 601313, 601785	
	HSYBG37	581098	891	48 - 965	1828		Ser-47 to Pro-57, Ser-77 to Glu-82, Thr-90 to Trp-98, Arg-124 to Lys-137, Ala-183 to Glu-192, Lys-220 to Gln-229, Asn-244 to Arg-258, Thr-271 to Asn-278, Glu-285 to Gly-297.			
532	HSZAF47	1352172	542	106 - 972	1479		Gly-16 to Pro-30, Pro-42 to Gly-56, Gly-62 to Gly-77, Glu-93 to Gly-104, Glu-109 to Glu-114, Pro-121 to Gly-134, Ser-157 to Arg-162, Glu-174 to Thr-182, Ile-283 to Leu-289.	4p16-p15	225500, 600593, 602363	
	HSZAF47	456551	892	107 - 490	1829		Gly-16 to Pro-30, Pro-42 to Gly-56, Gly-62 to Gly-77, Glu-93 to Gly-104, Glu-109 to Glu-114, Pro-121 to Gly-134, Ser-157 to Arg-162, Glu-174 to Thr-182, Ile-283 to Leu-289.			
533	HT3SF53	884170	543	184 - 390	1480		Leu-44 to Thr-55.	20q13.1	256540, 600281, 600281	
534	HT5GJ57	1299921	544	105 - 836	1481		Ser-29 to Thr-57,	7q11.23	116860, 129900, 233700, 600079	

							Pro-74 to Lys-79, Pro-85 to Glu-107, Tyr-118 to Tyr-136, Gln-144 to Gln-152, Ala-182 to Asn-195, Arg-203 to Val-208, Leu-212 to Ser-217, Gly-222 to Val-234.			
	HT5GJ57	740767	893	122 - 694	1830		Ser-29 to Thr-57, Pro-74 to Lys-79, Pro-85 to Glu-107, Tyr-118 to Tyr-136, Gln-144 to Gln-152, Ala-182 to Glu-188.			
535	HTADW91	844835	545	59 - 1150	1482					
536	HTADX17	753289	546	92 - 520	1483		Glu-15 to Arg-23, Asn-79 to Gly-84, Ser-101 to Gly-106, Ser-111 to Asn-116.	1q23.1	107300, 131210, 136132, 145001, 173610, 601652	
	HTADX17	457172	894	84 - 512	1831		Glu-15 to Arg-23, Asn-79 to Gly-84.			
537	HTAEE28	1018291	547	319 - 1167	1484		Pro-255 to Leu-264.			
	HTAEE28	882919	895	372 - 737	1832					
	HTAEE28	864120	896	124 - 771	1833					
538	HTDAF28	396835	548	38 - 301	1485		Pro-22 to Glu-33.	15q33.33- q23	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780	
539	HTEAF65	866485	549	135 - 362	1486		Phe-30 to Lys-37, Pro-43 to Lys-75.			
540	HTEBI28	462221	550	43 - 246	1487		Arg-24 to Arg-41, Pro-56 to Trp-64.			
541	HTEDF80	587326	551	696 - 1076	1488		Pro-68 to Asp-73, Gln-92 to Glu-107,			

542	HTEDY42	1352193	552	19 - 717	1489	Gln-120 to Lys-126. Glu-43 to Asn-49, Cys-75 to Lys-88, Glu-120 to Asp-125, Pro-182 to Ser-188, Pro-210 to Gln-216.		
	HTEDY42	519372	897	19 - 252	1834	Glu-43 to Asn-49.		
543	HTEFU65	543396	553	231 - 371	1490	Gly-35 to Gly-40.		
544	HTEGA76	381995	554	90 - 284	1491			
545	HTEGI42	908143	555	26 - 799	1492	Asp-61 to Gln-68, Gly-180 to Lys-185.		
	HTEGI42	904624	898	145 - 915	1835			
	HTEGI42	850770	899	1 - 282	1836			
	HTEGI42	847564	900	1081 - 1326	1837	Pro-1 to Arg-15.		
	HTEGI42	830165	901	670 - 849	1838			
546	HTEHR24	835894	556	84 - 572	1493	Met-1 to Thr-6, Gly-45 to Asn-61, Ala-63 to Asn-72.	6q16.1	136550, 602772
	HTEHR24	513039	902	41 - 415	1839	Met-1 to Thr-6, Gly-45 to Asn-74.		
547	HTEHU93	722254	557	188 - 616	1494	Arg-21 to Thr-29, Tyr-56 to Lys-63, Ser-93 to Ser-100, Glu-109 to Lys-116.	20pter- q11.23	
	HTEHU93	423009	903	187 - 528	1840	Arg-21 to Thr-29.		
548	HTEIP36	520468	558	22 - 198	1495	Glu-33 to Arg-45.		
549	HTEIV80	584798	559	203 - 346	1496			
550	HTEJN13	1352272	560	156 - 779	1497	Tyr-37 to Cys-49, Gly-51 to Tyr-56, Lys-88 to Trp-93, Phe-125 to Lys-140, Lys-147 to Thr-153.	1p12	600234, 602094

						Ser-120 to Tyr-125, Gln-186 to Leu-199, Glu-202 to Tyr-213, Ser-225 to Cys-233, Thr-269 to Ser-284, Gly-308 to Val-328, Asp-350 to Ala-357, Arg-367 to Gln-372, Arg-429 to Thr-434, Gly-444 to Thr-449, Thr-466 to Val-481, Val-485 to Ser-499, Ser-534 to Arg-540, Met-564 to Ile-570, Asn-573 to Phe-589, Pro-603 to Val-611, Arg-706 to Gly-711, Glu-717 to Asp-725, Ser-732 to Ser-738, Gln-743 to Glu-749, Leu-799 to Asp-805.				
	HTJML75	873355	908	335 - 529	1845	Gly-49 to His-56.				
561	HTLAA40	519329	571	33 - 248	1508	Ser-36 to Trp-41, Pro-53 to Arg-58.	16q22.1		103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 245900, 276600, 600223	
562	HTLBE23	902187	572	129 - 266	1509	Gly-35 to Cys-41.				
	HTLBE23	885431	909	205 - 222	1846					
563	HTLEP53	634852	573	73 - 378	1510	Ser-33 to Lys-43.				
564	HTLFE42	460583	574	116 - 349	1511	Ser-22 to Thr-32, Pro-37 to Ser-42.				
565	HTLFE57	1352310	575	124 - 687	1512	Asp-32 to Glu-37, Ala-41 to Phe-46, His-171 to Ala-176.	18q23	250790		

	HTLFE57	791409	910	189 - 698	1847	Ala-23 to His-34, His-153 to Ala-158.			
	HTLFE57	608317	911	110 - 619	1848	Ala-23 to His-34, His-153 to Ala-158.			
566	HTLGE31	1035130	576	51 - 311	1513	Val-31 to Gly-49.	9q34.12		
567	HTLHY14	838460	577	36 - 776	1514	His-22 to Tyr-32, Trp-56 to Lys-62, Ile-72 to Leu-77, Ile-126 to Gly-136, Tyr-187 to Ala-193, Ile-206 to Thr-214.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	
568	HTLIT32	833906	578	288 - 1028	1515	Ser-83 to Tyr-88, Ala-129 to Ser-134, Ser-227 to Ala-233.			
569	HTLIV19	1046341	579	110 - 364	1516		3		
570	HTNBO91	519313	580	7 - 129	1517				
571	HTOAK16	560744	581	87 - 419	1518	Asp-27 to Ser-36.			
572	HTODK73	526021	582	43 - 222	1519	Gln-27 to Arg-36.	20q13.33		
573	HTODO72	532001	583	183 - 257	1520				
574	HTOGR42	838160	584	14 - 181	1521	Pro-35 to Ser-40.			
	HTOGR42	570751	912	13 - 195	1849				
575	HTOHR15	1028538	585	30 - 215	1522				
	HTOHR15	848199	913	23 - 208	1850				
	HTOHR15	848200	914	71 - 1036	1851	Arg-1 to Gly-7, Phe-11 to Arg-23.			
	HTOHR15	848196	915	1555 - 1596	1852				
576	HTOHT18	628300	586	433 - 594	1523	Leu-39 to Ser-47.			
577	HTOIY21	665745	587	91 - 783	1524	Pro-22 to Pro-28, Pro-41 to His-48, Pro-79 to His-86, Pro-126 to Phe-134, Ser-137 to Met-143,			

578	HTOIZ02	826312	588	243 - 395	1525	Gln-176 to Ser-186.	17	
	HTOIZ02	847904	916	2 - 721	1853	Arg-20 to Val-29. Gly-1 to Glu-11, His-16 to Pro-24, Gly-31 to Arg-37, Asp-43 to Leu-49.		
579	HTOJA73	797108	589	100 - 225	1526			
580	HTOJK60	545067	590	217 - 315	1527			
581	HTPBW79	1317835	591	178 - 1263	1528	Leu-21 to Ala-30, Ser-38 to Asp-47, Pro-87 to Asp-94, Leu-197 to Thr-204, Pro-256 to Ser-262, Thr-277 to Arg-282, Thr-293 to Val-302, Lys-315 to Arg-321.	11	
	HTPBW79	581435	917	302 - 1390	1854	Leu-21 to Ala-30, Ser-38 to Asp-47, Pro-87 to Asp-94, Leu-197 to Thr-204, Pro-256 to Ser-262, Thr-277 to Arg-282, Thr-293 to Trp-303.		
	HTPBW79	396459	918	92 - 1336	1855	Leu-21 to Ala-30, Ser-38 to Asp-47, Pro-87 to Asp-94, Leu-197 to Arg-202, Pro-287 to Ser-293, Thr-308 to Arg-313, Thr-324 to Trp-334.		
582	HTSEW17	460579	592	170 - 283	1529			
583	HTTDB46	812763	593	55 - 1011	1530	Tyr-67 to Pro-74,		

						Ser-117 to Gln-123, Pro-161 to Met-185, Gly-224 to His-242, Thr-299 to Trp-307.			
	HTTDB46	909573	919	153 - 1535	1856	Tyr-67 to Pro-74, Ser-117 to Gln-123, Pro-161 to Met-185.			
584	HTWCT03	429618	594	334 - 639	1531	Thr-54 to Ile-59.			
585	HTWDF76	714344	595	316 - 570	1532		14q11.2- q12	160760, 160760, 182600, 186880, 190195, 190195, 222700, 600243, 600792, 601369, 602086, 602279, 602279	
586	HTXAJ12	1310814	596	91 - 426	1533	Lys-99 to Arg-107.			
	HTXAJ12	567434	920	91 - 426	1857	Lys-99 to Arg-107.			
587	HTXCV12	1352213	597	175 - 480	1534	Gln-29 to Gly-38, Lys-57 to Asp-62.			
	HTXCV12	567006	921	183 - 458	1858	Gln-29 to Gly-38, Lys-57 to Asp-62.			
588	HTXDW56	695765	598	217 - 822	1535	Glu-24 to Tyr-35, Arg-83 to Thr-92, Pro-148 to Gly-154.	1p36.13- q41	115665, 120550, 120570, 120575, 130500, 133200, 167410, 172430, 600975	
589	HTXFL30	620001	599	30 - 338	1536	Met-1 to Gly-6, Arg-11 to Gly-21.	3		
590	HTXKF95	891275	600	421 - 657	1537	Met-1 to Pro-6, Gly-73 to Thr-78.			
	HTXKF95	834438	922	330 - 566	1859	Met-1 to Pro-6, Gly-73 to Thr-78.			
591	HTXKP61	824083	601	169 - 297	1538		1p34	130500, 133200, 138140, 168360, 171760, 171760, 176100, 176100, 178300, 230000, 255800	
592	HUDBZ89	1352211	602	1085 - 1303	1539	Pro-24 to Pro-37.	20q11.23		
	HUDBZ89	562791	923	197 - 361	1860	Pro-24 to Pro-37.			
593	HUFBY15	1352349	603	49 - 525	1540	Ser-44 to Leu-51, Arg-81 to Cys-94, Thr-132 to Tyr-140,			

	HUFBY15	846380	924	74 - 508	1861	Arg-143 to Ile-154. Ser-44 to Leu-51, Arg-81 to Cys-94, Thr-118 to Tyr-126, Arg-129 to Ile-140.			
594	HUFEF62	645101	604	190 - 393	1541				
	HUFEF62	630097	925	182 - 388	1862				
595	HUKAH51	1352424	605	286 - 738	1542	Trp-35 to Trp-45, Pro-52 to Asp-57, Thr-73 to Arg-82, Pro-105 to Leu-112, Pro-115 to Arg-127, Pro-140 to Gln-151.			
	HUKAH51	1300737	926	144 - 572	1863	Trp-35 to Trp-45, Pro-52 to Asp-57, Thr-73 to Thr-80, Pro-96 to Leu-103, Pro-106 to Arg-118, Pro-131 to Gln-142.			
	HUKAH51	603538	927	55 - 414	1864	Trp-35 to Trp-45, Pro-52 to Asp-57, Thr-73 to Thr-80, Pro-96 to Leu-103, Pro-106 to Leu-119.			
596	HUKBT29	694590	606	74 - 1594	1543	Thr-35 to Lys-43, Pro-59 to Arg-64.	1q42	106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975	
597	HUSIG64	566762	607	9 - 1010	1544	Pro-51 to Arg-56, Lys-89 to Gln-94, Glu-144 to Gln-151, Gln-178 to Gln-183, Leu-224 to Gln-229, Tyr-284 to Pro-298,	4q21.1	173910, 252500, 252500	

598	HUSXS50	1352367	608	280 - 1845	1545	Lys-324 to Lys-334. Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Phe-124, Ala-190 to Asn-196, Gln-388 to Glu-394, Gln-402 to Gly-409, Asn-427 to Leu-439, Glu-447 to Thr-453, Pro-468 to Gln-474, Pro-476 to Phe-482, Arg-498 to Arg-504, Arg-508 to Arg-518.		
	HUSXS50	883176	928	281 - 1666	1865	Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Ser-114.		
	HUSXS50	655372	929	179 - 703	1866	Gln-54 to Gly-61, Asn-79 to Leu-91, Glu-99 to Thr-105, Pro-120 to Gln-126, Pro-128 to Phe-134, Arg-150 to Arg-156, Arg-160 to Arg-170.		
599	HVARW53	1194812	609	111 - 668	1546	Arg-128 to Tyr-134.	2	
	HVARW53	1044491	930	96 - 590	1867			
600	HWAAD63	838626	610	322 - 825	1547	Pro-53 to Trp-61.		
	HWAAD63	833089	931	322 - 483	1868			
	HWAAD63	793875	932	312 - 818	1869			
601	HWABA81	580889	611	57 - 203	1548	Pro-30 to Asn-36.		
602	HWABY10	768334	612	263 - 766	1549	Pro-67 to Ser-73.	6	

603	HWADI89	799506	613	581 - 709	1550			1p36.31- p36.11	120550, 120570, 120575, 130500, 133200, 600975
604	HWBAO62	838164	614	52 - 687	1551	Ile-40 to Glu-45, Cys-63 to Val-69, Glu-83 to Asn-94, Pro-107 to Cys-115, Phe-137 to Ser-143, Ser-159 to Thr-167, Glu-200 to Tyr-210.			
	HWBAO62	625914	933	81 - 386	1870	Ile-40 to Glu-45, Cys-63 to Val-69, Glu-83 to Phe-95.			
605	HWBAR88	836469	615	156 - 383	1552		6q24.3	600320	
606	HWBCB89	1093347	616	37 - 600	1553	Gln-20 to Phe-25, Gly-58 to Ala-66, Gln-69 to Leu-74, Asn-87 to Ile-100, Thr-135 to Trp-142.	1q24-q41	107300, 131210, 136132, 145001, 145260, 173610, 276901, 600332, 600759, 601518, 601652, 601744, 601975	
	HWBCB89	886210	934	35 - 598	1871	Gln-20 to Phe-25, Gly-58 to Ala-66, Gln-69 to Leu-74, Asn-87 to Ile-100, Thr-135 to Trp-142.			
607	HWBCP79	846382	617	243 - 560	1554	Trp-47 to Thr-54, Ser-68 to Asn-73, Ser-86 to Gly-92.			
	HWBCP79	646977	935	233 - 550	1872	Trp-47 to Thr-54.			
608	HWBDP28	1352265	618	1342 - 1542	1555	Ser-25 to Phe-31.	8p21.3	602629	
	HWBDP28	638536	936	132 - 314	1873	Ser-25 to Phe-31, Lys-55 to Arg-61.			
609	HWBFE57	907063	619	227 - 1132	1556	Phe-8 to Pro-15, Glu-43 to Leu-54,			

615	HWHGZ51	886212	625	33 - 1073	1562	Lys-39 to Cys-44, Pro-87 to Gly-93, Gln-107 to Ala-115, Glu-130 to Val-138, Glu-149 to Ser-155, Asn-163 to Tyr-169, Gln-217 to Phe-231, Pro-265 to Pro-273, Pro-275 to Val-284, Ala-288 to Arg-295, Gln-304 to Gly-325.	19q13.32	134790, 152780, 152780, 600040
616	HWHHL34	805642	626	131 - 694	1563	Pro-16 to Phe-21, Pro-24 to Arg-35, Arg-92 to Pro-98, Asn-143 to Lys-151, Leu-169 to Ile-176.		
	HWHHL34	801943	943	209 - 517	1880	Arg-40 to Pro-46.		
	HWHHL34	341560	944	101 - 664	1881	Pro-16 to Phe-21, Pro-24 to Arg-35, Arg-92 to Pro-98, Asn-143 to Lys-151, Leu-169 to Ile-176.		
617	HWLEV32	1032602	627	39 - 176	1564			
	HWLEV32	873296	945	29 - 166	1882			
	HWLEV32	881710	946	3 - 410	1883			
	HWLEV32	846351	947	1 - 423	1884	His-7 to Gly-15, Pro-89 to Arg-95, Pro-103 to His-109.		
618	HWLIH65	793713	628	129 - 626	1565			
619	HWTBK81	460568	629	139 - 606	1566	Tyr-59 to Gln-68, His-84 to Leu-90, Ser-105 to Asn-110.		

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	HANGG89	844216	640	
	HANGG89	692291	641	
30	HAPBS03	656755	40	<p>AR218: 47, AR219: 45, AR313: 38, AR316: 26, AR089: 22, AR096: 20, AR039: 18, AR299: 18, AR185: 16, AR300: 13, AR104: 13, AR240: 11, AR055: 11, AR277: 10, AR060: 8, AR282: 8, AR283: 5 S0422: 15, L0766: 8, H0014: 6, L0005: 5, S0360: 5, L3827: 5, H0657: 4, L0789: 4, H0413: 3, L0646: 3, L0805: 3, L0655: 3, L0777: 3, L0591: 3, S0242: 3, H0543: 3, L3643: 2, S0442: 2, S0376: 2, L0770: 2, L0764: 2, L0649: 2, L0650: 2, L0775: 2, L0659: 2, L0783: 2, L0663: 2, L0665: 2, L3832: 2, H0696: 2, L0751: 2, L0747: 2, L0758: 2, L0596: 2, H0352: 2, H0170: 1, H0656: 1, S0420: 1, S0354: 1, H0637: 1, S0045: 1, H0749: 1, H0393: 1, S0300: 1, L0717: 1, L3816: 1, H0486: 1, H0042: 1, H0575: 1, H0004: 1, H0318: 1, H0052: 1, H0046: 1, L0157: 1, H0017: 1, H0356: 1, H0355: 1, H0644: 1, H0180: 1, H0068: 1, H0038: 1, T0067: 1, H0561: 1, L5575: 1, L0771: 1, L0662: 1, L0803: 1, L0804: 1, L0776: 1, L0606: 1, L0661: 1, L0657: 1, L0656: 1, L0809: 1, L0532: 1, L2262: 1.</p>

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	HBINS58	892924	652	
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	HCEWE17	460407	661		
74	HCEWE20	543370	84		AR253: 8, AR053: 6, AR196: 6, AR198: 5, AR191: 5, AR313: 5, AR245: 4, AR181: 4, AR174: 4, AR195: 4, AR189: 3, AR096: 3, AR089: 3, AR213: 3, AR177: 3, AR270: 3, AR254: 3, AR300: 3, AR190: 3, AR269: 3, AR224: 3, AR247: 3, AR188: 2, AR275: 2, AR175: 2, AR226: 2, AR165: 2, AR171: 2, AR312: 2, AR179: 2, AR162: 2, AR180: 2, AR164: 2,

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93	HCWGU37	1042325	103	AR165: 7, AR164: 6, AR166: 6, AR313: 6, AR161: 5, AR162: 5, AR163: 5, AR089: 5, AR263: 5, AR039: 5, AR252: 4, AR173: 4, AR275: 4, AR178: 3, AR185: 3, AR212: 3, AR240: 3, AR268: 3, AR300: 3, AR193: 3, AR223: 3, AR196: 3, AR096: 3, AR247: 3, AR192: 3, AR262: 3, AR179: 3, AR234: 3, AR195: 3, AR053: 3, AR312: 3, AR229: 3, AR104: 3, AR222: 3, AR282: 3, AR060: 3, AR297: 3, AR174: 3, AR213: 3, AR269: 2, AR257: 2, AR285: 2, AR308: 2, AR175: 2, AR291: 2, AR261: 2, AR277: 2, AR191: 2, AR218: 2, AR311: 2, AR255: 2, AR272: 2, AR258: 2, AR316: 2, AR182: 2, AR201: 2, AR207: 2, AR237: 2, AR203: 2, AR286: 2, AR246: 2, AR233: 2, AR231: 2, AR296: 2, AR290: 2, AR236: 2, AR264: 2, AR199: 2, AR188: 2, AR288: 1, AR293: 1, AR295: 1, AR299: 1, AR205: 1, AR181: 1, AR287: 1, AR214: 1, AR294: 1, AR232: 1, AR238: 1, AR033: 1, AR228: 1, AR226: 1, AR267: 1, AR219: 1, AR239: 1, AR211: 1, H0589: 60,

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94	HCWKC15	553621	104		AR313: 9, AR164: 8, AR165: 8, AR166: 8, AR163: 7, AR161: 7, AR162: 7, AR089: 6, AR039: 5, AR173: 5, AR096: 5, AR180: 5, AR192: 4, AR263: 4, AR299: 4, AR282: 4, AR242: 4, AR053: 4, AR178: 4, AR175: 4, AR247: 4, AR269: 4, AR296: 4, AR257: 3, AR212: 3, AR174: 3, AR240: 3, AR262: 3, AR196: 3, AR274: 3, AR312: 3, AR234: 3, AR229: 3, AR199: 3, AR243: 3, AR264: 3, AR185: 3, AR300: 3, AR179: 3, AR311: 3, AR293: 3, AR181: 3, AR272: 3, AR297: 3, AR213: 3, AR171: 3, AR270: 3, AR183: 3, AR238: 3, AR236: 3, AR316: 3, AR060: 3, AR308: 3, AR294: 3, AR266: 3, AR226: 3, AR177: 3, AR258: 3, AR285: 2, AR104: 2, AR233: 2, AR172: 2, AR193: 2, AR197: 2, AR291: 2, AR231: 2, AR188: 2, AR219: 2, AR255: 2, AR275: 2, AR189: 2, AR237: 2, AR290: 2, AR295: 2, AR287: 2, AR277: 2, AR218: 2, AR267: 2, AR182: 2, AR228: 2, AR268: 2, AR204: 2, AR190: 2, AR246: 2, AR239: 2, AR232: 2, AR261: 2, AR223: 2, AR201: 2, AR217: 2, AR195: 2, AR260: 1, AR200: 1, AR170: 1, AR286: 1, AR216: 1, AR288: 1, AR222: 1, AR227: 1, AR230: 1 H0305: 2 and H0589: 1.
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115	HDPJF37	704487	125	AR227: 3, AR268: 3, AR294: 3, AR290: 3, AR234: 3, AR232: 3, AR226: 3, AR300: 2, AR250: 2, AR282: 2, AR256: 2, AR061: 2, AR053: 2, AR260: 2, AR228: 2, AR055: 2, H0521: 1 AR215: 15, AR225: 14, AR253: 11, AR213: 10, AR221: 9, AR223: 9, AR217: 8, AR311: 8, AR212: 8, AR214: 8, AR218: 7, AR250: 7, AR053: 7, AR309: 7, AR270: 7, AR216: 7, AR291: 7, AR096: 7, AR219: 7, AR254: 7, AR165: 7, AR263: 7, AR164: 7, AR161: 7, AR162: 7, AR269: 6, AR172: 6, AR163: 6, AR224: 6, AR183: 6, AR264: 6, AR268: 6, AR089: 6, AR240: 6, AR297: 6, AR180: 6, AR199: 6, AR173: 6, AR313: 5, AR290: 5, AR308: 5, AR246: 5, AR222: 5, AR168: 5, AR197: 5, AR039: 5, AR299: 5, AR191: 5, AR275: 5, AR261: 5, AR262: 5, AR316: 5, AR285: 5, AR175: 5, AR229: 5, AR300: 5, AR282: 5, AR267: 5, AR174: 5, AR295: 5, AR207: 5, AR255: 5, AR195: 5, AR169: 5, AR293: 5, AR312: 5, AR176: 5, AR272: 5, AR243: 5, AR287: 4, AR205: 4, AR181: 4, AR189: 4, AR247: 4, AR170: 4, AR257: 4, AR192: 4, AR245: 4, AR188: 4, AR266: 4, AR277: 4, AR177: 4, AR271: 4, AR200: 4, AR193: 4, AR236: 4, AR179: 4, AR182: 4, AR294: 4, AR296: 4, AR060: 4, AR210: 4, AR286: 4, AR288: 4, AR211: 4, AR178: 3, AR289: 3, AR166: 3, AR190: 3, AR171: 3, AR033: 3, AR238: 3, AR231: 3, AR185: 3, AR234: 3, AR201: 3, AR198: 3, AR230: 3, AR283: 3, AR227: 3, AR226: 3, AR237: 3, AR274: 3, AR104: 3, AR232: 3, AR260: 3, AR203: 3, AR204: 2, AR233: 2, AR235: 2, AR258: 2, AR061: 2, AR055: 2, AR228: 2, AR239: 2, AR256: 1, L0803: 2, H0521: 2, L0754: 2, H0657: 1, S0001: 1, H0661: 1, S0444: 1, S0045: 1, S0278: 1, H0581: 1, H0572: 1, H0050: 1, L0050: 1, H0412: 1, T0042: 1, H0625: 1, S0344: 1, L0662: 1, L0653: 1, L0789: 1, L0666: 1, H0520: 1, S0152: 1, L0777: 1 and L0731: 1.
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	HDPMM88	885059	682	
	HDPMM88	874074	683	
	HDPMM88	854246	684	
	HDPMM88	854245	685	
117	HDPNC61	637585	127	AR241: 10, AR184: 10, AR313: 8, AR245: 8, AR242: 8, AR265: 8, AR162: 7, AR192: 7, AR161: 7, AR271: 7, AR163: 7,

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	HDPOZ56	743479	687	
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126	HDPUH26	866433	136	<p>1, H0583: 1, H0661: 1, H0638: 1, S0420: 1, S0360: 1, H0580: 1, H0438: 1, H0497: 1, H0599: 1, S0010: 1, H0581: 1, H0545: 1, H0457: 1, H0563: 1, L0163: 1, L0055: 1, H0673: 1, H0212: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, S0142: 1, S0344: 1, L0763: 1, L0770: 1, L0767: 1, L0766: 1, L0776: 1, L0659: 1, L0782: 1, L0545: 1, H0144: 1, H0672: 1, S0152: 1, S0406: 1, H0627: 1, S0390: 1, L0748: 1, L0777: 1, L0758: 1, S0026: 1, H0665: 1 and H0543: 1.</p> <p>AR177: 16, AR176: 15, AR174: 15, AR175: 14, AR235: 13, AR273: 12, AR183: 12, AR191: 11, AR251: 11, AR261: 11, AR182: 10, AR170: 10, AR310: 9, AR190: 9, AR171: 9, AR189: 9, AR169: 9, AR173: 9, AR195: 9, AR214: 8, AR224: 8, AR265: 8, AR215: 8, AR297: 8, AR222: 7, AR197: 7, AR243: 7, AR269: 7, AR221: 7, AR288: 7, AR165: 7, AR217: 7, AR285: 7, AR188: 7, AR202: 7, AR164: 7, AR263: 7, AR216: 7, AR287: 7, AR161: 7, AR162: 7, AR291: 7, AR168: 7, AR172: 6, AR163: 6, AR166: 6, AR270: 6, AR292: 6, AR223: 6, AR180: 6, AR295: 6, AR284: 6, AR245: 6, AR053: 6, AR207: 6, AR315: 6, AR271: 6, AR298: 5, AR268: 5, AR196: 5, AR255: 5, AR311: 5, AR194: 5, AR211: 5, AR201: 5, AR236: 5, AR226: 5, AR264: 5, AR238: 5, AR312: 5, AR198: 5, AR232: 5, AR181: 5, AR262: 4, AR257: 4, AR178: 4, AR249: 4, AR282: 4, AR213: 4, AR199: 4, AR206: 4, AR252: 4, AR192: 4, AR247: 4, AR193: 4, AR308: 4, AR239: 4, AR205: 4, AR212: 4, AR274: 4, AR203: 4, AR225: 4, AR272: 4, AR242: 4, AR309: 4, AR266: 4, AR286: 4, AR296: 4, AR289: 3, AR267: 3, AR234: 3, AR185: 3, AR240: 3, AR237: 3, AR231: 3, AR227: 3, AR250: 3, AR299: 3, AR089: 3, AR210: 3, AR033: 3, AR248: 3, AR314: 3, AR293: 3, AR246: 3, AR290: 3, AR294: 3, AR060: 3, AR316: 3, AR230: 3, AR039: 3, AR258: 3, AR280: 3, AR275: 3, AR200: 3, AR233: 3, AR229: 3, AR283: 2, AR061: 2, AR253: 2, AR277: 2, AR313: 2, AR228: 2, AR281: 2, AR300: 2, AR096: 2, AR179: 2, AR256: 2, AR260: 2, AR104: 2, AR219: 2, AR244: 2, AR204: 2, AR186: 1, AR218: 1, AR052: 1, AR259: 1, AR055: 1, S0358: 4, S0280: 3, H0717: 2, H0370: 2, H0510: 2, H0536: 1, H0716: 1, S0442: 1, S0354: 1, S0476: 1, H0393: 1, H0549: 1, H0586: 1, T0082: 1, H0036: 1, H0590: 1, H0596: 1, H0050: 1, H0628: 1, H0264: 1, H0494: 1, H0509: 1, L2257: 1, L2654: 1, H0521: 1, L0741: 1, L0439: 1, H0445: 1, S0436: 1, L0605: 1, S0011: 1 and H0665: 1.</p>
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128	HDPVH60	796865	138	H0658: 1, H0696: 1, H0678: 1, L0779: 1, L0752: 1, H0445: 1, S0434: 1 and S0436: 1. AR263: 12, AR265: 9, AR311: 8, AR312: 8, AR264: 7, AR308: 7, AR161: 7, AR052: 7, AR163: 7, AR195: 7, AR212: 7, AR165: 6, AR197: 6, AR164: 6, AR053: 6, AR242: 6, AR193: 6, AR166: 6, AR245: 5, AR180: 5, AR191: 5, AR310: 5, AR096: 5, AR196: 5, AR287: 5, AR199: 5, AR188: 5, AR253: 4, AR213: 4, AR309: 4, AR174: 4, AR262: 4, AR200: 4, AR257: 4, AR201: 4, AR190: 4, AR183: 4, AR288: 4, AR178: 4, AR239: 4, AR239: 4, AR236: 4, AR261: 4, AR204: 4, AR282: 4, AR255: 4, AR228: 4, AR275: 4, AR176: 4, AR244: 4, AR060: 4, AR297: 3, AR189: 3, AR249: 3, AR172: 3, AR233: 3, AR179: 3, AR175: 3, AR207: 3, AR177: 3, AR295: 3, AR039: 3, AR198: 3, AR229: 3, AR294: 3, AR173: 3, AR286: 3, AR254: 3, AR248: 3, AR230: 3, AR184: 3, AR227: 3, AR270: 3, AR293: 3, AR240: 3, AR182: 3, AR313: 3, AR246: 3, AR258: 3, AR033: 2, AR234: 2, AR316: 2, AR274: 2, AR089: 2, AR267: 2, AR226: 2, AR185: 2, AR300: 2, AR269: 2, AR192: 2, AR285: 2, AR232: 2, AR299: 2, AR205: 2, AR268: 2, AR247: 2, AR104: 2, AR237: 2, AR271: 2, AR221: 2, AR290: 2, AR061: 2, AR231: 2, AR181: 2, AR252: 2, AR260: 2, AR277: 2, AR281: 2, AR289: 2, AR243: 1, AR266: 1, AR055: 1, AR291: 1, AR296: 1, AR168: 1, AR211: 1, AR217: 1, AR235: 1, AR280: 1, AR292: 1, AR251: 1, AR219: 1, AR194: 1 H0457: 6, H0436: 4, L0761: 3, L0655: 3, L0749: 3, S0276: 3, H0716: 2, H0657: 2, H0492: 2, H0069: 2, H0050: 2, H0271: 2, L0764: 2, L0771: 2, L0766: 2, L0774: 2, L0775: 2, H0521: 2, L0751: 2, L0777: 2, H0423: 2, S0114: 1, S0134: 1, H0650: 1, L0808: 1, H0254: 1, S0376: 1, S0360: 1, H0580: 1, H0600: 1, H0586: 1, H0587: 1, H0486: 1, S0474: 1, H0416: 1, H0687: 1, H0039: 1, H0606: 1, H0591: 1, H0040: 1, H0488: 1, H0641: 1, L0763: 1, L0794: 1, L0806: 1, L0661: 1, L0659: 1, L0665: 1, H0144: 1, H0697: 1, S0380: 1, H0522: 1, H0576: 1, H0478: 1, L0747: 1, L0779: 1, S0260: 1, L0599: 1, H0543: 1 and H0506: 1.
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136	HDTEK44	1025421	879009	751707	AR313: 60, AR163: 58, AR196: 54, AR264: 52, AR161: 50, AR162: 49, AR263: 42, AR165: 41, AR164: 39, AR229: 39, AR166: 39, AR240: 38, AR096: 37, AR089: 36, AR174: 35, AR247: 35, AR173: 34, AR242: 33, AR185: 33, AR177: 32, AR181: 32, AR234: 31, AR218: 30, AR300: 30, AR258: 28, AR308: 28, AR275: 27, AR262: 27, AR104: 27, AR192: 26, AR175: 26, AR179: 26, AR207: 25, AR236: 25, AR274: 25, AR235: 25, AR311: 24, AR312: 24, AR233: 23, AR293: 23, AR257: 23, AR053: 22, AR309: 22, AR261: 22, AR199: 22, AR316: 21, AR191: 21, AR277: 21, AR238: 21, AR230: 21, AR299: 21, AR213: 20, AR060: 20, AR226: 20, AR197: 20, AR180: 20, AR297: 19, AR200: 19, AR212: 19, AR193: 19, AR203: 18, AR271: 17, AR231: 17, AR219: 17, AR237: 16, AR295: 16, AR188: 16, AR178: 16, AR285: 16, AR282: 16, AR198: 16, AR245: 15, AR189: 15, AR039: 15, AR033: 15, AR204: 15, AR227: 15, AR228: 15, AR286: 15, AR195: 15, AR239: 14, AR294: 14, AR254: 14, AR255: 14, AR296: 14, AR183: 14, AR287: 13, AR269: 13, AR260: 13, AR270: 12, AR201: 12, AR288: 11, AR182: 11, AR291: 11, AR252: 10, AR290: 10, AR250: 10, AR223: 10, AR253: 10, AR169: 10, AR170: 10, AR243: 10, AR224: 10, AR168: 10, AR214: 10, AR256: 10, AR272: 9, AR268: 9, AR246: 9, AR171: 9, AR283: 9, AR225: 9, AR172: 8, AR289: 8, AR205: 8, AR232: 8, AR222: 8, AR190: 8, AR176: 8, AR210: 8, AR217: 8, AR216: 8, AR267: 8, AR221: 7, AR215: 7, AR266: 5, AR055: 5, AR061: 5, L0809: 7, L0662: 4, L0794: 2, H0592: 1, H0586: 1, H0485: 1, H0486: 1, H0687: 1, L0648: 1, L0803: 1, L0375: 1, L0384: 1, L0663: 1, H0683: 1, L0439: 1 and L0747: 1.
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137	HDTEK44	902431	890972	904770	AR282: 122, AR039: 29, AR300: 8, AR316: 4, AR055: 2, AR060: 2, AR313: 1, H0486: 8, S0328: 7, S0356: 5, L0655: 5, L0762: 3, L5574: 3, H0445: 3, L0794: 2, L0653: 2, S0330: 2, L0750: 2, L0808: 1, H0551: 1, L0761: 1, L5564: 1, L0606: 1, S0392: 1, L0747: 1 and S0384: 1.
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138	HDTEK44	1043391	890972	904770	AR169: 12, AR224: 12, AR223: 11, AR264: 11, AR210: 10, AR214: 10, AR235: 10, AR215: 10, AR311: 10, AR222: 9, AR207: 9, AR212: 9, AR170: 9, AR168: 8, AR282: 8, AR217: 8, AR221: 8, AR194: 8, AR195: 8, AR252: 8, AR309: 7, AR261: 7, AR166: 7, AR308: 7, AR171: 7, AR165: 7, AR164: 7, AR216: 7, AR277: 6, AR263: 6, AR225: 6, AR288: 6, AR172: 6, AR161: 6, AR162: 6, AR312: 5, AR163: 5, AR245: 5, AR192: 5, AR180: 5, AR196: 5, AR297: 5, AR193: 5, AR053: 5, AR250: 5, AR265: 5, AR205: 5, AR242: 5, AR310: 5, AR211: 5, AR204: 4, AR240: 4, AR181: 4, AR254: 4, AR213: 4, AR236: 4, AR206: 4, AR199: 4, AR295: 4, AR052: 4, AR266: 4, AR257: 4, AR203: 4, AR174: 4, AR246: 4, AR177: 4, AR200: 4, AR280: 4, AR287: 4, AR189: 4, AR262: 4, AR178: 3, AR191: 3, AR291: 3, AR249: 3, AR286: 3, AR198: 3, AR285: 3, AR173: 3, AR289: 3, AR060: 3, AR089: 3, AR201: 3, AR243: 3, AR272: 3, AR188: 3, AR239: 3, AR197: 3, AR299: 3, AR183: 3, AR033: 3, AR270: 3, AR300: 3, AR247: 3, AR248: 3, AR296: 3, AR176: 3, AR284: 3.

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	HDTFE17	892317	702	
139	HDTGC73	635457	149	AR177: 18, AR191: 15, AR174: 14, AR175: 14, AR274: 13, AR189: 12, AR190: 12, AR165: 12, AR176: 12, AR164: 11, AR166: 11, AR161: 10, AR162: 10, AR163: 10, AR235: 10, AR181: 10, AR269: 10, AR183: 9, AR173: 9, AR172: 9, AR261: 9, AR295: 9, AR188: 8, AR224: 8, AR236: 8, AR089: 8, AR192: 8, AR282: 8, AR180: 8, AR196: 8, AR214: 8, AR240: 8, AR263: 7, AR217: 7, AR286: 7, AR226: 7, AR270: 7, AR225: 7, AR297: 7, AR182: 7, AR207: 7, AR247: 7, AR169: 7, AR221: 7, AR232: 7, AR275: 7, AR293: 7, AR287: 7, AR222: 6, AR223: 6, AR285: 6, AR258: 6, AR316: 6, AR300: 6, AR238: 6, AR262: 6, AR096: 6, AR290: 6, AR185: 6, AR311: 6, AR264: 6, AR216: 6, AR268: 6, AR171: 6, AR178: 6, AR313: 5, AR309: 5, AR296: 5, AR272: 5, AR239: 5, AR233: 5, AR053: 5, AR257: 5, AR288: 5, AR289: 5, AR213: 5, AR060: 5, AR291: 5, AR104: 5, AR308: 5, AR168: 5, AR267: 5, AR203: 5, AR195: 5, AR299: 5, AR033: 5, AR294: 5, AR277: 4, AR228: 4, AR255: 4, AR211: 4, AR237: 4, AR039: 4, AR199: 4, AR266: 4, AR312: 4, AR179: 4, AR198: 4, AR256: 4, AR204: 4, AR061: 4, AR212: 4, AR229: 4, AR200: 4, AR260: 4, AR283: 3, AR231: 3, AR243: 3, AR234: 3, AR271: 3, AR252: 3, AR227: 3, AR170: 3, AR193: 3, AR197: 3, AR055: 3, AR230: 3, AR245: 3, AR201: 3, AR246: 3, AR205: 2, AR210: 2, AR218: 2, AR219: 2, AR215: 1, AR242: 1, L0375: 4, L0605: 4, L0809: 3, L0803: 2, L5286: 2, L0743: 2, L0744: 2, L0747: 2, L0779: 2, L0777: 2, L0731: 2, L0758: 2, S0412: 2, H0171: 1, H0716: 1, H0772: 1, H0486: 1, L0021: 1, H0598: 1, S0438: 1, L0769: 1, L0663: 1, L0665: 1, L0742: 1, L0748: 1, L0750: 1 and L0756: 1.
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141	HDTMK50	1011485	151	AR196: 9, AR313: 9, AR162: 9, AR264: 9, AR161: 9, AR165: 9, AR163: 8, AR164: 8, AR173: 8, AR166: 8, AR262: 8, AR175: 8, AR309: 7, AR174: 7, AR247: 7, AR179: 6, AR269: 6, AR240: 6, AR180: 6, AR257: 6, AR200: 6, AR275: 6, AR178: 6, AR270: 6, AR191: 6, AR238: 6, AR258: 6, AR312: 6, AR183: 6, AR199: 5, AR181: 5, AR236: 5, AR188: 5, AR293: 5, AR234: 5, AR285: 5, AR246: 5, AR252: 5, AR274: 5, AR294: 5, AR300: 5, AR203: 5, AR177: 5, AR233: 5, AR296: 5, AR268: 5, AR229: 5, AR263: 5, AR182: 5, AR189: 5, AR096: 4, AR226: 4, AR193: 4, AR231: 4, AR176: 4, AR253: 4, AR287: 4, AR185: 4, AR290: 4, AR297: 4, AR261: 4, AR255: 4, AR207: 4, AR190: 3, AR295: 3, AR217: 3, AR168: 3, AR237: 3, AR299: 3, AR308: 3, AR267: 3, AR228: 3, AR235: 3, AR089: 3, AR218: 3, AR260: 3, AR212: 3, AR286: 3, AR230: 3, AR239: 3, AR277: 3, AR245: 3, AR282: 3, AR227: 3, AR221: 3, AR039: 2, AR205: 2, AR316: 2, AR033: 2, AR216: 2, AR060: 2, AR169: 2, AR201: 2, AR266: 2, AR219: 2, AR288: 2, AR232: 2, AR214: 2, AR204: 2, AR053: 2, AR289: 2, AR172: 2, AR256: 2, AR104: 2, AR210: 2, AR225: 1, AR242: 1, AR061: 1, AR171: 1, AR311: 1, L0754: 6, S0474: 5, L0666: 5, L0740: 5, H0486: 4, L0662: 4, L0748: 4, L0766: 3, H0657: 2, S0358: 2, H0587: 2, L0655: 2, S0330: 2, L0744: 2, H0543: 2, H0306: 1, S0418: 1, S0376: 1, S0222: 1, H0574: 1, L0471: 1, H0057: 1, H0594: 1, H0687: 1, H0031: 1, L0142: 1, H0032: 1, H0413: 1, S0426: 1, L0768: 1, L0658: 1, L0558: 1, L0659: 1, L0791: 1, L0664: 1, H0648: 1, S0328: 1, S0136: 1, H0521: 1, H0214: 1, L0742: 1, L0779: 1, L0755: 1, L0731: 1, L0758: 1 and S0192: 1.
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	HDTMK50	857362	705	
142	HE2DY70	722217	152	AR252: 8, AR215: 6, AR242: 3, AR225: 3, AR201: 2, AR180: 2, AR266: 2, AR231: 2, AR181: 2, AR271: 2, AR161: 1, AR162: 1, AR195: 1, AR257: 1, AR262: 1, AR089: 1, AR300: 1, AR217: 1, AR258: 1, AR193: 1, AR291: 1, S0003: 3, H0170: 1, S0278: 1, L0637: 1, L0731: 1, L0777: 1, L0758: 1 and L0362: 1.
143	HE2EB74	513662	153	AR196: 12, AR161: 8, AR162: 8, AR163: 8, AR285: 6, AR165: 6, AR164: 6, AR243: 6, AR166: 6, AR232: 6, AR287: 6, AR188: 6, AR269: 5, AR261: 5, AR295: 5, AR174: 5, AR291: 5, AR226: 5, AR257: 5, AR233: 5, AR171: 5, AR236: 5, AR191: 4, AR264: 4, AR263: 4, AR266: 4, AR296: 4, AR182: 4, AR275: 4, AR288: 4, AR286: 4, AR178: 4, AR255: 4, AR176: 4, AR258: 4, AR060: 4, AR089: 4, AR299: 4, AR308: 4, AR238: 4, AR309: 4, AR175: 4, AR104: 4, AR311: 4, AR297: 4, AR239: 4, AR260: 4, AR179: 3, AR177: 3, AR274: 3, AR181: 3, AR237: 3, AR256: 3, AR300: 3, AR289: 3,

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144	HE2EN04	545008	154	<p>AR309: 12, AR264: 11, AR308: 9, AR263: 9, AR311: 8, AR312: 6, AR210: 6, AR225: 6, AR207: 5, AR053: 5, AR245: 5, AR200: 5, AR313: 4, AR272: 4, AR282: 4, AR217: 4, AR271: 4, AR223: 4, AR201: 4, AR183: 4, AR212: 4, AR196: 4, AR193: 4, AR246: 4, AR270: 3, AR274: 3, AR203: 3, AR162: 3, AR161: 3, AR163: 3, AR267: 3, AR176: 3, AR205: 3, AR195: 3, AR172: 3, AR261: 3, AR096: 3, AR165: 3, AR197: 3, AR164: 3, AR268: 2, AR218: 2, AR255: 2, AR177: 2, AR204: 2, AR188: 2, AR168: 2, AR199: 2, AR175: 2, AR166: 2, AR316: 2, AR060: 2, AR216: 2, AR236: 2, AR089: 2, AR266: 2, AR288: 2, AR171: 2, AR213: 2, AR178: 2, AR228: 2, AR262: 2, AR290: 2, AR231: 2, AR179: 2, AR233: 2, AR185: 2, AR239: 2, AR296: 2, AR229: 2, AR234: 2, AR182: 2, AR289: 2, AR285: 2, AR277: 1, AR224: 1, AR181: 1, AR293: 1, AR191: 1, AR237: 1, AR227: 1, AR219: 1, AR286: 1, AR173: 1, AR291: 1, AR269: 1, AR295: 1, AR190: 1, AR258: 1, AR055: 1, AR294: 1, AR211: 1, AR061: 1, AR238: 1, AR252: 1, AR247: 1, AR297: 1, AR283: 1, AR299: 1, AR214: 1, L0749: 5, L0662: 3, L0665: 3, H0144: 3, H0519: 3, S0418: 2, L0518: 2, L0663: 2, H0690: 2, L0740: 2, L0779: 2, H0624: 1, H0170: 1, T0002: 1, S0420: 1, S0360: 1, H0559: 1, H0581: 1, L0471: 1, H0628: 1, H0634: 1, H0616: 1, S0210: 1, L0598: 1, L0770: 1, L0769: 1, L0373: 1, L0372: 1, L0642: 1, L0764: 1, L0768: 1, L0649: 1, L0381: 1, L0650: 1, L0806: 1, L0655: 1, L0657: 1, H0684: 1, S0152: 1, H0631: 1, L0751: 1, L0596: 1, S0011: 1 and H0677: 1.</p>
145	HE2FV03	396139	155	<p>AR225: 457, AR215: 423, AR223: 419, AR214: 310, AR170: 307, AR169: 302, AR296: 290, AR171: 266, AR168: 246, AR291: 231, AR256: 206, AR172: 159, AR255: 156, AR288: 155, AR221: 152, AR289: 150, AR285: 145, AR295: 144, AR224: 144, AR217: 139, AR297: 137, AR235: 133, AR266: 132, AR216: 130, AR260: 118, AR222: 116, AR178: 96, AR183: 90, AR293: 90, AR179: 89, AR287: 88, AR180: 88, AR261: 80, AR176: 80, AR213: 77, AR316: 76, AR262: 74, AR269: 71, AR253: 71, AR270: 70, AR181: 69, AR219: 68, AR258: 68, AR283: 68, AR173: 66, AR290: 64, AR210: 64, AR294: 64, AR250: 63, AR175: 62, AR236: 61, AR033: 61, AR257: 60, AR039: 59, AR238: 57, AR243: 56, AR230: 55, AR252: 54, AR182: 53, AR240: 52, AR242: 52, AR254: 52, AR190: 51, AR268: 51, AR188: 50, AR286: 50, AR199: 49, AR096: 48, AR247: 48, AR205: 48, AR104: 47, AR282: 46, AR245: 46, AR218: 46, AR237: 45, AR189: 45, AR212: 44, AR229: 44, AR174: 44, AR191: 42, AR313: 42, AR185: 41, AR274: 41, AR267: 40, AR263: 40, AR177: 40, AR198: 40, AR089: 40, AR196: 39, AR234: 39, AR264: 39, AR300: 37, AR246: 37, AR271: 37, AR053: 37, AR312: 37, AR163: 37, AR299: 36, AR162: 36, AR193: 36, AR195: 36, AR309: 35, AR204: 35, AR200: 34, AR201: 34, AR211: 33, AR166: 33, AR165: 33, AR060: 33, AR226: 32, AR272: 32, AR275: 32, AR203: 32, AR192: 32, AR311: 32, AR308: 32, AR227: 31, AR164: 31, AR055: 31, AR231: 30, AR233: 28, AR197: 28, AR232: 27, AR239: 26, AR228: 26, AR061: 24, AR277: 23, AR207: 23, L0666: 5, L0438: 5, L0439: 4, L0731: 4, L0471: 3, H0547: 3, H0170: 2, H0586: 2, S0628: 2, H0539: 2, S0146: 2, L0740: 2, L0752: 2, S0192: 2, S0242: 2, H0171: 1, L0002: 1, L0005: 1, S0408: 1, S0222: 1, H0331: 1, H0156: 1, H0575: 1, H0309: 1, H0597: 1, T0067: 1, L0598: 1, H0529: 1, L0520: 1, L0768: 1, L0803: 1, L0774: 1, L0775: 1,</p>

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	HE9OW20	834400	710	
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183	HETLM70	1177512	193	AR089: 27, AR283: 26, AR277: 21, AR060: 19, AR316: 19, AR282: 18, AR104: 15, AR299: 15, AR194: 14, AR281: 14,

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184	HFABG18	847073	194	AR292: 14, AR186: 12, AR241: 10, AR194: 9, AR273: 9, AR052: 8, AR202: 8, AR061: 8, AR282: 7, AR291: 7, AR206: 7, AR298: 7, AR284: 7, AR274: 7, AR275: 6, AR295: 6, AR184: 6, AR251: 6, AR244: 6, AR238: 5, AR204: 5, AR226: 5, AR310: 4, AR232: 4, AR286: 4, AR248: 4, AR296: 4, AR033: 4, AR289: 4, AR285: 4, AR266: 4, AR246: 4, AR243: 4, AR055: 4, AR198: 4, AR312: 4, AR224: 4, AR309: 4, AR269: 4, AR283: 3, AR299: 3, AR227: 3, AR231: 3, AR237: 3, AR192: 3, AR265: 3, AR267: 3, AR268: 3, AR253: 3, AR270: 3, AR259: 3, AR290: 3, AR053: 3, AR249: 3, AR193: 3, AR183: 3, AR300: 3, AR060: 3, AR182: 3, AR213: 3, AR233: 3, AR229: 3, AR172: 3, AR294: 3, AR247: 3, AR216: 3, AR313: 3, AR225: 3, AR185: 3, AR293: 3, AR205: 3, AR218: 2, AR168: 2, AR277: 2, AR195: 2, AR089: 2, AR234: 2, AR261: 2, AR215: 2, AR271: 2, AR219: 2, AR177: 2, AR235: 2, AR263: 2, AR171: 2, AR096: 2, AR316: 2, AR176: 2, AR245: 2, AR240: 2, AR175: 2, AR308: 2, AR272: 2, AR257: 2, AR163: 2, AR256: 2, AR104: 1, AR165: 1, AR166: 1, AR315: 1, AR297: 1, AR169: 1, AR164: 1, AR039: 1, AR280: 1, AR255: 1, AR287: 1, L0743: 7, L0747: 6, L0758: 6, L0766: 5, L0666: 5, L0754: 5, L0750: 5, L0662: 4, L0783: 4, L0665: 4, L0751: 4, L0777: 4, H0170: 3, S0132: 3, L0503: 3, L0500: 3, L0769: 3, L0774: 3, L0805: 3, L0809: 3, L0565: 3, L0749: 3, L0757: 3, L0596: 3, S0360: 2, H0013: 2, H0024: 2, H0617: 2, H0673: 2, L0641: 2, L0773: 2, L0768: 2, L0649: 2, L0499: 2, L0375: 2, L0659: 2, L0664: 2, H0658: 2, L0744: 2, L0748: 2, L0740: 2, L0745: 2, L0603: 2, H0265: 1, H0556: 1, S6024: 1, H0661: 1, H0662: 1, S0418: 1, T0008: 1, H0351: 1, S0222: 1, H0370: 1, T0039: 1, L0015: 1, S0280: 1, H0575: 1, H0004: 1, H0618: 1, H0596: 1, H0231: 1, H0545: 1, H0009: 1, H0012: 1, S0388: 1, S0051: 1, H0292: 1, H0688: 1, H0644: 1, L0055: 1, H0674: 1, H0124: 1, H0598: 1, H0087: 1, S0440: 1, S0150: 1, S0142: 1, L0763: 1, L0770: 1, L0764: 1, L0771: 1, L0794: 1, L0650: 1, L0651: 1, L0378: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0493: 1, L0634: 1, L0528: 1, H0144: 1, H0547: 1, H0690: 1, H0682: 1, H0670: 1, S0328: 1, H0518: 1, H0436: 1, L0746: 1, L0756: 1, L0779: 1, L0780: 1, L0731: 1, H0445: 1, S0434: 1, L0592: 1, H0668: 1, S0194: 1, H0506: 1 and H0008: 1.
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202	HFTCU19 HFTDL56	456457 695976	723 212	<p>AR202: 8, AR244: 8, AR192: 7, AR289: 7, AR270: 7, AR266: 6, AR198: 6, AR246: 6, AR186: 6, AR274: 6, AR243: 6, AR282: 5, AR251: 5, AR204: 5, AR182: 5, AR284: 5, AR061: 5, AR277: 5, AR312: 5, AR052: 5, AR273: 5, AR291: 5, AR206: 5, AR309: 5, AR205: 5, AR296: 5, AR275: 5, AR269: 5, AR298: 4, AR267: 4, AR194: 4, AR253: 4, AR268: 4, AR290: 4, AR295: 4, AR053: 4, AR247: 4, AR060: 4, AR055: 4, AR286: 4, AR033: 3, AR292: 3, AR265: 3, AR238: 3, AR283: 3, AR271: 3, AR249: 3, AR310: 3, AR104: 3, AR229: 3, AR184: 3, AR313: 3, AR294: 3, AR232: 3, AR240: 3, AR185: 3, AR300: 3, AR316: 3, AR175: 2, AR089: 2, AR177: 2, AR293: 2, AR248: 2, AR096: 2,</p>

203	HFTDZ36	545726	213	AR039: 2, AR226: 2, AR231: 2, AR227: 2, AR183: 2, AR237: 2, AR241: 2, AR233: 2, AR285: 2, AR234: 2, AR258: 2, AR259: 1, AR263: 1, AR219: 1, AR218: 1, H0024: 38, H0123: 15, H0208: 5, H0209: 1, H0617: 1, H0264: 1 and L0386: 1, AR282: 5, AR176: 3, AR252: 2, AR270: 2, AR287: 2, AR309: 2, AR221: 2, AR263: 2, AR291: 2, AR224: 2, AR233: 2, AR181: 2, AR198: 2, AR240: 2, AR222: 2, AR193: 2, AR214: 2, AR286: 2, AR165: 2, AR164: 1, AR178: 1, AR236: 1, AR201: 1, AR168: 1, AR089: 1, AR262: 1, AR060: 1, AR217: 1, AR161: 1, AR272: 1, AR264: 1, AR061: 1, AR195: 1, AR257: 1, AR268: 1, AR215: 1, AR285: 1, AR258: 1, AR210: 1, AR104: 1, AR196: 1, L0779: 5, L0758: 4, S0036: 2, H0038: 2, S0422: 2, L0662: 2, L0803: 2, H0171: 1, H0208: 1, H0411: 1, S0222: 1, H0013: 1, H0108: 1, H0581: 1, H0123: 1, H0024: 1, H0373: 1, S0051: 1, S0028: 1, H0615: 1, L0794: 1, L0804: 1, S0126: 1, H0436: 1, S0028: 1, L0756: 1, L0777: 1, L0731: 1 and S0242: 1.
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206	HFVAB79 HFVIC62	698580 799525	725 216	AR226: 14, AR238: 10, AR217: 8, AR296: 8, AR239: 7, AR295: 7, AR225: 6, AR266: 6, AR214: 5, AR232: 5, AR161: 5,

207	HFXAM76	601402	217	AR162: 5, AR163: 5, AR176: 5, AR255: 5, AR171: 4, AR224: 4, AR309: 4, AR282: 4, AR215: 4, AR291: 4, AR182: 4, AR287: 4, AR274: 4, AR269: 4, AR181: 4, AR165: 4, AR164: 4, AR257: 4, AR264: 4, AR270: 4, AR216: 4, AR263: 4, AR288: 4, AR233: 4, AR289: 4, AR275: 4, AR285: 4, AR166: 4, AR188: 4, AR271: 4, AR272: 3, AR246: 3, AR237: 3, AR183: 3, AR261: 3, AR221: 3, AR311: 3, AR178: 3, AR297: 3, AR294: 3, AR267: 3, AR286: 3, AR231: 3, AR316: 3, AR060: 3, AR223: 3, AR268: 3, AR234: 3, AR283: 3, AR210: 3, AR219: 3, AR312: 3, AR089: 3, AR173: 3, AR293: 3, AR308: 3, AR196: 3, AR236: 3, AR229: 3, AR172: 3, AR218: 3, AR228: 3, AR290: 3, AR185: 3, AR199: 3, AR169: 2, AR061: 2, AR258: 2, AR227: 2, AR230: 2, AR256: 2, AR222: 2, AR242: 2, AR177: 2, AR096: 2, AR179: 2, AR313: 2, AR191: 2, AR203: 2, AR174: 2, AR189: 2, AR300: 2, AR260: 2, AR277: 2, AR201: 2, AR262: 2, AR190: 2, AR193: 2, AR033: 2, AR104: 2, AR247: 2, AR168: 2, AR200: 2, AR240: 2, AR180: 2, AR170: 2, AR055: 1, AR175: 1, AR243: 1, AR299: 1, AR235: 1, AR211: 1, AR245: 1, L0748: 3, H0510: 2, L0803: 2, S0212: 1, H0393: 1, H0574: 1, H0632: 1, H0349: 1, L0774: 1, L0659: 1, L0789: 1, H0689: 1, L0749: 1, L0777: 1 and L0581: 1.
208	HFXAM76	601402	217	AR221: 3, AR055: 3, AR168: 3, AR242: 3, AR180: 3, AR161: 3, AR163: 2, AR060: 2, AR195: 2, AR172: 2, AR264: 2, AR039: 2, AR309: 2, AR178: 2, AR217: 2, AR275: 2, AR164: 2, AR207: 1, AR282: 1, AR266: 1, AR183: 1, AR270: 1, AR162: 1, AR165: 1, AR212: 1, AR210: 1, AR193: 1, AR166: 1, AR089: 1, AR257: 1, AR246: 1, AR283: 1, H0457: 9, L0766: 7, H0046: 5, H0650: 4, H0634: 3, L0659: 3, L0439: 3, H0716: 2, H0656: 2, H0254: 2, H0255: 2, H0333: 2, H0253: 2, H0081: 2, H0083: 2, H0628: 2, L0761: 2, L0800: 2, H0658: 2, L0750: 2, H0543: 2, H0422: 2, H0265: 1, H0657: 1, S0001: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0722: 1, S0045: 1, H0550: 1, S0222: 1, H0614: 1, H0613: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0327: 1, H0545: 1, H0041: 1, H0050: 1, H0354: 1, H0266: 1, H0179: 1, H0428: 1, H0622: 1, S0366: 1, S0036: 1, H0087: 1, H0264: 1, H0488: 1, L0435: 1, H0022: 1, T0041: 1, H0560: 1, S0142: 1, S0426: 1, H0695: 1, H0529: 1, L0644: 1, L0764: 1, L0662: 1, L0649: 1, L0375: 1, L0805: 1, L0658: 1, L0809: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0330: 1, H0539: 1, H0518: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0749: 1, L0756: 1, H0445: 1, S0434: 1, H0136: 1, S0276: 1 and H0542: 1.
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210	HFXGT26	745381	220	AR254: 6, AR180: 6, AR215: 6, AR165: 5, AR166: 5, AR164: 5, AR269: 5, AR178: 5, AR162: 5, AR161: 4, AR176: 4,

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	HHBCS39	847543	729	
223	HHEAA08	638231	233	AR192: 9, AR246: 7, AR217: 7, AR224: 7, AR214: 7, AR197: 7, AR207: 6, AR250: 6, AR195: 6, AR216: 6, AR169: 6, AR039: 6, AR089: 6, AR271: 6, AR223: 5, AR312: 5, AR212: 5, AR313: 5, AR222: 5, AR282: 5, AR165: 5, AR196: 5, AR053: 5, AR162: 5, AR161: 5, AR164: 5, AR166: 5, AR254: 5, AR263: 5, AR193: 5, AR225: 5, AR309: 5, AR163: 5, AR311: 5, AR205: 5, AR299: 5, AR235: 4, AR243: 4, AR295: 4, AR264: 4, AR274: 4, AR245: 4, AR300: 4, AR213: 4, AR172: 4, AR275: 4, AR201: 4, AR191: 4, AR060: 4, AR308: 4, AR175: 4, AR261: 4, AR240: 4, AR221: 4, AR296: 4, AR174: 4, AR316: 4, AR178: 4, AR171: 4, AR272: 4, AR242: 4, AR199: 4, AR177: 3, AR096: 3, AR288: 3, AR168: 3, AR033: 3, AR104: 3, AR291: 3, AR257: 3, AR200: 3, AR188: 3, AR218: 3, AR173: 3, AR183: 3, AR285: 3, AR198: 3, AR180: 3, AR189: 3, AR283: 3, AR270: 3, AR268: 3, AR262: 3, AR247: 3, AR293: 3, AR286: 3, AR297: 3, AR238: 3, AR236: 3, AR185: 3, AR237: 3, AR190: 3, AR181: 3, AR258: 2, AR226: 2, AR182: 2, AR232: 2, AR287: 2, AR277: 2, AR289: 2, AR203: 2, AR266: 2, AR294: 2, AR267: 2, AR290: 2, AR204: 2, AR239: 2, AR255: 2, AR231: 2, AR229: 2, AR233: 2, AR256: 2, AR269: 2, AR210: 2, AR219: 2, AR234: 2, AR179: 2, AR227: 2, AR211: 1, AR055: 1, AR260: 1, AR230: 1, AR253: 1, AR061: 1, AR228: 1, AR215: 1, H0341: 1 and H0542: 1.
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224	HHEMA59	823100	234	AR226: 23, AR238: 16, AR227: 15, AR237: 11, AR173: 9, AR313: 8, AR161: 8, AR162: 7, AR239: 7, AR165: 7, AR164: 7, AR163: 7, AR166: 7, AR089: 7, AR175: 6, AR178: 6, AR180: 5, AR183: 5, AR247: 5, AR169: 5, AR240: 4, AR196: 4, AR300: 4, AR269: 4, AR270: 4, AR204: 4, AR312: 4, AR215: 4, AR268: 4, AR282: 4, AR182: 4, AR179: 4, AR271: 4, AR275: 4, AR096: 4, AR242: 4, AR191: 4, AR177: 4, AR185: 4, AR198: 4, AR264: 4, AR258: 4, AR174: 3, AR181: 3, AR253: 3, AR189: 3, AR316: 3, AR061: 3, AR267: 3, AR263: 3, AR218: 3, AR104: 3, AR172: 3, AR260: 3, AR212: 3, AR257: 3, AR219: 3, AR229: 3, AR233: 3, AR299: 3, AR216: 3, AR039: 3, AR203: 3, AR053: 3, AR224: 2, AR188: 2, AR176: 2, AR243: 2, AR171: 2, AR266: 2, AR214: 2, AR033: 2, AR308: 2, AR289: 2, AR293: 2, AR232: 2, AR193: 2, AR234: 2, AR277: 2, AR168: 2, AR205: 2, AR195: 2, AR256: 2, AR311: 2, AR201: 2, AR283: 2, AR055: 1, AR213: 1, AR272: 1, AR222: 1, AR200: 1, AR296: 1, AR291: 1, AR288: 1, AR217: 1, AR199: 1, AR192: 1, AR211: 1, AR255: 1, AR190: 1, AR262: 1, AR286: 1, L0771: 5, L0766: 4, L0748: 4, L0754: 4, H0551: 3, S0003: 2, H0328: 2, H0615: 2, S0422: 2, H0144: 2, L0438: 2, S0013: 2, L0747: 2, L0756: 2, L0759: 2, H0170: 1, S6024: 1, H0656: 1, S0110: 1, H0662: 1, H0176: 1, S0356: 1, S0360: 1, L0717: 1, S6016: 1, S0222: 1, H0438: 1, H0156: 1, H0575: 1, H0036: 1, H0318: 1, H0581: 1, H0020: 1, H0031: 1, S0036: 1, S0294: 1, S0002: 1, L0770: 1, L0638: 1, L0662: 1, L0774: 1, L0652: 1, L0655: 1, L0606: 1, L0659: 1, L0663: 1, S0216: 1, H0648: 1, H0651: 1, H0539: 1, S0152: 1, H0522: 1, L0777: 1, L0731: 1, S0031: 1, L0581: 1, S0192: 1, S0194: 1, H0543: 1 and H0423: 1.
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	HHEMM74	895682	733	
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	HHEPU04	535730	735		
232	HHFBY53	821330	242		AR191: 5, AR201: 4, AR215: 4, AR060: 3, AR188: 3, AR289: 2, AR255: 2, AR233: 2, AR274: 2, AR180: 2, AR193: 2, AR283: 2, AR033: 1, AR296: 1, AR240: 1, AR172: 1, AR089: 1, AR277: 1, AR312: 1, AR224: 1, AR225: 1, AR199: 1, AR210: 1, AR282: 1, S0360: 3, H0670: 3, H0556: 2, H0292: 2, H0686: 1, H0685: 1, S0134: 1, S0116: 1, H0662: 1, H0640: 1, S0300: 1, H0586: 1, H0642: 1, L0622: 1, L0586: 1, H0253: 1, H0050: 1, H0057: 1, T0006: 1, L0653: 1, L0657: 1, L0659: 1, L0787: 1, L0666: 1, L0663: 1, H0547: 1, H0659: 1, H0648: 1, H0436: 1, L0748: 1, L0362: 1, L0361: 1, H0653: 1, H0542: 1, H0423: 1 and H0422: 1.
233	HHFEC49	905849	243		AR089: 11, AR060: 10, AR104: 10, AR055: 9, AR039: 8, AR096: 7, AR219: 7, AR218: 6, AR316: 6, AR185: 5, AR282: 4, AR313: 4, AR299: 4, AR283: 4, AR300: 4, AR225: 3, AR240: 3, AR195: 3, AR277: 3, AR243: 3, AR296: 2, AR223: 2, AR224: 2, AR171: 1, AR193: 1, AR180: 1, AR033: 1, AR212: 1, AR172: 1, AR257: 1, AR178: 1, AR201: 1, H0050: 4, S0126: 4, H0521: 4, L0747: 4, H0013: 3, S0003: 3, L0768: 3, L0666: 3, H0670: 3, S0152: 3, L0731: 3, L0759: 3, L0599: 3, S0192: 3, H0657: 2, H0255: 2, S0442: 2, S0360: 2, H0575: 2, H0271: 2, H0059: 2, L0766: 2, H0520: 2, H0519: 2, L0749: 2, L0752: 2, S0436: 2, L0590: 2, L0601: 2, H0667: 2, H0170: 1, H0686: 1, H0713: 1, S0114: 1, H0483: 1, H0662: 1, S0418: 1, S0420: 1, S0356: 1, S0358: 1, S0376: 1, S0132: 1, H0645: 1, S0026: 1, H0331: 1, H0485: 1, H0427: 1, S0280: 1, L0021: 1, H0042: 1, S0010: 1, H0052: 1, H0123: 1, H0012: 1, H0024: 1, H0051: 1, S0388: 1, H0355: 1, L0295: 1, H0179: 1, S0214: 1, H0252: 1, T0006: 1, S0036: 1, H0616: 1, H0551: 1, H0264: 1, T0042: 1, H0494: 1, S0016: 1, H0560: 1, H0561: 1, S0370: 1, S0438: 1, H0633: 1, H0652: 1, S0210: 1, L0770: 1, L3904: 1, L0667: 1, L0662: 1, L0794: 1, L0804: 1, L0775: 1, L0776: 1, L0661: 1, L0809: 1, L0791: 1, S0052: 1, H0702: 1, S0374: 1, H0435: 1, H0660: 1, S0330: 1, S0044: 1, S0406: 1, H0576: 1, H0631: 1, S014: 1, S0206: 1, L0756: 1, L0779: 1, L0596: 1, L0592: 1, S0242: 1 and H0506: 1.
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	HHFOJ29	1042456	738	
239	HHGBO91	520198	249	AR173: 14, AR313: 13, AR161: 12, AR162: 12, AR165: 12, AR242: 12, AR163: 11, AR175: 11, AR166: 11, AR164: 11, AR247: 11, AR183: 10, AR178: 10, AR229: 10, AR193: 9, AR196: 9, AR257: 9, AR179: 8, AR262: 8, AR293: 8, AR258: 8, AR180: 8, AR182: 8, AR270: 8, AR181: 8, AR238: 8, AR192: 8, AR269: 8, AR174: 7, AR199: 7, AR201: 7, AR296: 7, AR240: 7, AR176: 7, AR197: 7, AR300: 7, AR191: 7, AR226: 7, AR236: 7, AR268: 6, AR204: 6, AR198: 6, AR297: 6, AR299: 6, AR250: 6, AR274: 6, AR234: 6, AR264: 6, AR285: 6, AR195: 6, AR053: 6, AR312: 6, AR233: 6, AR294: 6, AR089: 5, AR287: 5, AR212: 5, AR207: 5, AR203: 5, AR177: 5, AR245: 5, AR255: 5, AR189: 5, AR275: 5, AR271: 5, AR243: 5, AR200: 5, AR266: 5, AR096: 5, AR239: 5, AR228: 4, AR205: 4, AR237: 4, AR267: 4, AR260: 4, AR188: 4, AR231: 4, AR286: 4, AR246: 4, AR282: 4, AR290: 4, AR288: 4, AR218: 4, AR261: 4, AR213: 4, AR295: 4, AR291: 4, AR253: 4, AR033: 4, AR185: 4, AR254: 4, AR039: 4, AR230: 3, AR289: 3, AR309: 3, AR316: 3, AR311: 3, AR190: 3, AR308: 3, AR272: 3, AR277: 3, AR169: 3, AR256: 3, AR214: 3, AR232: 3, AR222: 3, AR227: 3, AR060: 3, AR263: 3, AR219: 3, AR170: 2, AR211: 2, AR061: 2, AR223: 2, AR172: 2, AR283: 2, AR171: 1, AR210: 1, AR235: 1, AR104: 1, AR225: 1, AR224: 1, AR216: 1 H0333: 1, H0597: 1 and H0670: 1.
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246	HHPTJ65	490904	256	AR104: 5, AR252: 4, AR254: 4, AR235: 3, AR180: 3, AR225: 3, AR055: 2, AR165: 2, AR060: 2, AR166: 2, AR274: 2, AR277: 2, AR204: 2, AR182: 2, AR053: 2, AR282: 2, AR164: 2, AR257: 2, AR223: 2, AR264: 2, AR240: 2, AR266: 1, AR168: 1, AR294: 1, AR286: 1, AR177: 1, AR275: 1, AR243: 1, AR269: 1, AR039: 1, AR175: 1, AR288: 1, AR089: 1, AR289: 1, AR229: 1, L0805: 14, L0439: 8, L0770: 5, L0438: 5, L0752: 5, L0776: 3, L0759: 3, S0010: 2, L0769: 2, L0771: 2, L0745: 2, L0777: 2, L0753: 2, L3111: 1, S6026: 1, S0300: 1, H0351: 1, H0333: 1, H0563: 1, S6028: 1, S0036: 1, H0413: 1, S0112: 1, S0210: 1, L0640: 1, L4747: 1, L0800: 1, L0774: 1, L0659: 1, L0792: 1, S3014: 1, L0741: 1, L0750: 1, L0756: 1, L0780: 1, S0194: 1 and S0276: 1.
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249	HJACG02	1307789	259	L0750: 1, L0756: 1 and L0731: 1. AR207: 37, AR195: 33, AR283: 32, AR263: 32, AR264: 29, AR223: 28, AR214: 28, AR089: 28, AR277: 27, AR222: 27, AR309: 27, AR311: 27, AR212: 26, AR169: 26, AR316: 25, AR224: 24, AR096: 24, AR055: 24, AR197: 23, AR213: 23, AR282: 22, AR104: 22, AR245: 22, AR171: 22, AR218: 22, AR162: 22, AR192: 21, AR217: 21, AR161: 21, AR193: 21, AR163: 20, AR308: 20, AR165: 20, AR168: 20, AR216: 20, AR170: 20, AR164: 20, AR235: 19, AR172: 19, AR053: 19, AR166: 19, AR060: 19, AR219: 19, AR242: 19, AR271: 19, AR299: 19, AR210: 19, AR039: 19, AR033: 19, AR240: 18, AR225: 18, AR313: 18, AR312: 18, AR201: 18, AR221: 17, AR261: 17, AR198: 17, AR246: 17, AR288: 17, AR252: 17, AR295: 17, AR176: 16, AR177: 16, AR215: 15, AR297: 15, AR253: 15, AR205: 15, AR270: 15, AR196: 15, AR185: 15, AR275: 15, AR286: 15, AR285: 14, AR260: 14, AR287: 14, AR233: 14, AR236: 14, AR183: 14, AR227: 13, AR175: 13, AR211: 13, AR300: 13, AR250: 13, AR294: 13, AR181: 13, AR274: 13, AR272: 13, AR229: 13, AR174: 12, AR256: 12, AR182: 12, AR234: 12, AR204: 12, AR269: 12, AR228: 12, AR293: 12, AR178: 12, AR226: 12, AR268: 11, AR266: 11, AR173: 11, AR262: 11, AR200: 11, AR243: 11, AR199: 11, AR258: 11, AR231: 11, AR291: 11, AR180: 11, AR289: 11, AR247: 11, AR239: 10, AR257: 10, AR267: 10, AR255: 10, AR188: 10, AR254: 10, AR203: 10, AR232: 10, AR238: 9, AR191: 9, AR189: 9, AR190: 9, AR061: 9, AR230: 9, AR296: 9, AR179: 9, AR290: 8, AR237: 7, S0442: 4, L0764: 4, S0408: 3, H0306: 2, H0263: 2, H0596: 2, L0800: 2, L0755: 2, S0116: 1, S0358: 1, H0489: 1, H0597: 1, T0041: 1 and L0772: 1.
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	HJPCP42	824612	747	

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	HKAAH36	1352330	749	
	HKAAH36	836040	750	
	HKAAH36	838068	751	
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	HKAAH36	590734	753	
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	HKACM93	907085		757	
	HKACM93	906154		758	
	HKACM93	906150		759	
268	HKAEL80	570865		278	AR313: 19, AR196: 18, AR173: 17, AR162: 13, AR161: 13, AR163: 13, AR180: 13, AR300: 12, AR247: 12, AR242: 12, AR175: 12, AR089: 12, AR299: 12, AR096: 12, AR293: 12, AR199: 11, AR229: 11, AR192: 11, AR183: 11, AR178: 10,

269	HKAEV06	1352263	279	<p>AR165: 10, AR164: 10, AR166: 10, AR258: 10, AR191: 9, AR240: 9, AR270: 9, AR282: 9, AR269: 9, AR257: 9, AR262: 9, AR181: 9, AR297: 9, AR275: 9, AR197: 9, AR053: 8, AR296: 8, AR179: 8, AR174: 8, AR177: 8, AR238: 8, AR213: 8, AR189: 8, AR285: 8, AR264: 8, AR236: 8, AR218: 8, AR182: 8, AR234: 8, AR200: 8, AR287: 8, AR316: 7, AR212: 7, AR185: 7, AR207: 7, AR261: 7, AR226: 7, AR188: 7, AR309: 7, AR295: 7, AR268: 7, AR254: 7, AR176: 7, AR198: 7, AR294: 7, AR271: 7, AR060: 7, AR312: 7, AR245: 7, AR286: 6, AR039: 6, AR203: 6, AR231: 6, AR193: 6, AR288: 6, AR233: 6, AR243: 6, AR266: 6, AR250: 6, AR205: 6, AR291: 6, AR272: 6, AR224: 6, AR221: 6, AR204: 6, AR277: 6, AR237: 6, AR230: 6, AR195: 5, AR168: 5, AR267: 5, AR201: 5, AR255: 5, AR222: 5, AR219: 5, AR225: 5, AR235: 5, AR104: 5, AR274: 5, AR260: 5, AR263: 5, AR033: 5, AR170: 5, AR172: 5, AR290: 5, AR289: 5, AR239: 5, AR311: 5, AR190: 4, AR246: 4, AR283: 4, AR169: 4, AR228: 4, AR308: 4, AR256: 4, AR214: 4, AR227: 3, AR171: 3, AR055: 3, AR232: 3, AR217: 3, AR223: 3, AR210: 3, AR061: 3, AR211: 2, AR216: 1 L0766: 2, L0791: 2, L0748: 2, L0758: 2, H0494: 1, L0772: 1, S0216: 1, L0750: 1, L0777: 1 and L0759: 1.</p>
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270	HKAFK41	545018	280	<p>AR188: 28, AR275: 14, AR200: 11, AR196: 10, AR104: 9, AR217: 8, AR165: 7, AR274: 7, AR164: 7, AR191: 7, AR166: 7, AR161: 7, AR162: 7, AR163: 7, AR189: 7, AR272: 6, AR210: 6, AR089: 6, AR269: 6, AR238: 6, AR203: 6, AR214: 6, AR060: 6, AR247: 6, AR271: 5, AR183: 5, AR282: 5, AR270: 5, AR221: 5, AR180: 5, AR216: 5, AR313: 5, AR053: 5, AR264: 5, AR205: 5, AR176: 5, AR290: 5, AR174: 4, AR215: 4, AR308: 4, AR173: 4, AR190: 4, AR219: 4, AR312: 4, AR178: 4, AR175: 4, AR218: 4, AR316: 4, AR177: 4, AR185: 4, AR243: 4, AR033: 4, AR197: 4, AR268: 4, AR198: 4, AR182: 4, AR299: 4, AR193: 4, AR267: 4, AR195: 4, AR246: 4, AR240: 4, AR181: 4, AR199: 4, AR211: 4, AR061: 4, AR213: 4, AR096: 3, AR300: 3, AR212: 3, AR291: 3, AR311: 3, AR261: 3, AR239: 3, AR266: 3, AR232: 3, AR226: 3, AR297: 3, AR289: 3, AR235: 3, AR237: 3, AR296: 3, AR039: 3, AR201: 3, AR234: 3, AR230: 3,</p>

271	HKAFT66	946512	281	AR262: 3, AR277: 2, AR179: 2, AR285: 2, AR223: 2, AR228: 2, AR236: 2, AR225: 2, AR288: 2, AR293: 2, AR294: 2, AR256: 2, AR286: 2, AR283: 2, AR233: 2, AR258: 2, AR222: 2, AR287: 2, AR229: 2, AR224: 1, AR171: 1, AR260: 1, AR295: 1, AR227: 1, L0779: 10, H0547: 9, L0770: 7, L0659: 7, L0754: 7, S0010: 6, L0439: 6, L0740: 6, L0663: 5, H0013: 4, L0809: 4, H0539: 4, L0747: 4, L0756: 4, L0731: 4, L0759: 4, S0360: 3, H0156: 3, H0581: 3, H0090: 3, H0412: 3, H0494: 3, S0438: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, S0434: 3, L0593: 3, H0542: 3, S0282: 2, S0356: 2, H0486: 2, S0049: 2, H0046: 2, L0471: 2, S0003: 2, H0428: 2, H0616: 2, T0042: 2, S0440: 2, S0150: 2, S0002: 2, L0598: 2, H0529: 2, L0640: 2, L0637: 2, L0646: 2, L0766: 2, L0776: 2, L0666: 2, L0665: 2, H0520: 2, H0519: 2, S0126: 2, S0152: 2, S0406: 2, L0748: 2, L0596: 2, L0599: 2, S0470: 1, H0717: 1, L0778: 1, S0212: 1, S0001: 1, S0418: 1, S0354: 1, S0376: 1, S0444: 1, S0408: 1, S0410: 1, S0468: 1, H0619: 1, L0717: 1, S0278: 1, H0369: 1, S0222: 1, S6014: 1, H0409: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, H0427: 1, H0042: 1, S0346: 1, H0421: 1, T0115: 1, L0040: 1, H0231: 1, H0546: 1, H0545: 1, T0010: 1, S0214: 1, H0252: 1, H0553: 1, H0644: 1, H0124: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, H0551: 1, H0477: 1, H0264: 1, H0100: 1, S0014: 1, H0625: 1, S0144: 1, S0422: 1, L0762: 1, L0769: 1, L0638: 1, L0667: 1, L0643: 1, L0764: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0792: 1, L0664: 1, H0144: 1, H0711: 1, H0684: 1, H0660: 1, H0672: 1, H0521: 1, H0696: 1, H0627: 1, L0742: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0589: 1, L0591: 1, L0608: 1, L0594: 1, H0653: 1, H0667: 1, H0543: 1, H0423: 1 and S0424: 1.
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	HKAFT66	904790	762	
272	HKDBF34	833065	282	AR060: 22, AR244: 10, AR194: 8, AR241: 8, AR238: 6, AR281: 6, AR192: 6, AR206: 6, AR205: 6, AR246: 6, AR202: 5, AR282: 5, AR182: 5, AR271: 5, AR243: 5, AR277: 4, AR232: 4, AR283: 4, AR226: 4, AR266: 4, AR316: 3, AR251: 3, AR186: 3, AR234: 3, AR053: 3, AR227: 3, AR284: 3, AR310: 3, AR269: 3, AR204: 3, AR247: 3, AR231: 3, AR184: 3, AR052: 3, AR198: 3, AR183: 3, AR229: 3, AR313: 3, AR275: 3, AR061: 3, AR312: 2, AR273: 2, AR286: 2, AR295: 2, AR240: 2, AR298: 2, AR039: 2, AR104: 2, AR299: 2, AR055: 2, AR267: 2, AR289: 2, AR285: 2, AR270: 2,

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273	HKGAT94	762811	283	AR221: 15, AR313: 12, AR173: 9, AR196: 9, AR299: 9, AR240: 8, AR247: 8, AR089: 7, AR175: 7, AR096: 7, AR217: 7, AR212: 7, AR168: 7, AR219: 7, AR162: 6, AR161: 6, AR171: 6, AR178: 6, AR262: 6, AR293: 6, AR183: 6, AR165: 6, AR166: 6, AR172: 6, AR164: 6, AR257: 6, AR163: 6, AR258: 6, AR218: 6, AR199: 6, AR179: 6, AR216: 6, AR300: 5, AR180: 5, AR170: 5, AR238: 5, AR270: 5, AR234: 5, AR282: 5, AR185: 5, AR213: 5, AR229: 5, AR297: 5, AR264: 5, AR274: 5, AR296: 5, AR169: 5, AR269: 5, AR191: 5, AR189: 5, AR188: 5, AR275: 5, AR316: 5, AR203: 5, AR290: 4, AR033: 4, AR200: 4, AR285: 4, AR236: 4, AR182: 4, AR181: 4, AR277: 4, AR309: 4, AR214: 4, AR231: 4, AR266: 4, AR174: 4, AR261: 4, AR210: 4, AR226: 4, AR177: 4, AR060: 4, AR211: 4, AR291: 4, AR287: 4, AR295: 4, AR225: 4, AR263: 4, AR272: 4, AR308: 4, AR268: 4, AR245: 4, AR286: 4, AR294: 4, AR260: 3, AR312: 3, AR190: 3, AR311: 3, AR288: 3, AR230: 3, AR195: 3, AR246: 3, AR254: 3, AR233: 3, AR237: 3, AR267: 3, AR053: 3, AR039: 3, AR193: 3, AR239: 3, AR255: 3, AR243: 3, AR176: 3, AR055: 3, AR228: 3, AR205: 2, AR289: 2, AR227: 2, AR104: 2, AR201: 2, AR204: 2, AR271: 2, AR215: 2, AR283: 2, AR235: 1, AR256: 1, AR061: 1, AR242: 1, AR232: 1, AR198: 1 H0166: 1, H0538: 1, L0657: 1, L0809: 1, L0665: 1, H0539: 1 and L0748: 1.
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274	HKGCO27	601969	284	AR170: 6, AR282: 6, AR235: 5, AR180: 5, AR215: 5, AR225: 4, AR263: 4, AR053: 4, AR271: 4, AR161: 4, AR162: 4, AR163: 4, AR165: 4, AR207: 4, AR164: 4, AR264: 3, AR166: 3, AR254: 3, AR269: 3, AR272: 3, AR089: 3, AR224: 3, AR312: 3, AR313: 3, AR311: 3, AR223: 3, AR169: 3, AR196: 3, AR308: 3, AR295: 3, AR177: 2, AR216: 2, AR171: 2, AR212: 2, AR252: 2, AR060: 2, AR277: 2, AR176: 2, AR185: 2, AR175: 2, AR288: 2, AR297: 2, AR178: 2, AR285: 2, AR262: 2, AR299: 2, AR236: 2, AR247: 2, AR033: 2, AR316: 2, AR189: 2, AR214: 2, AR309: 2, AR261: 2, AR191: 2, AR181: 2, AR257: 2, AR213: 2, AR174: 2, AR200: 2, AR188: 2, AR294: 2, AR195: 2, AR293: 2, AR240: 2, AR287: 2, AR055: 1, AR168: 1, AR190: 1, AR210: 1, AR229: 1, AR234: 1, AR096: 1, AR199: 1, AR233: 1, AR246: 1, AR104: 1, AR182: 1, AR238: 1, AR267: 1, AR289: 1, AR203: 1, AR283: 1, AR300: 1, AR258: 1, AR266: 1, AR290: 1, AR172: 1, AR291: 1, AR268: 1 H0538: 1
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275	HKISB57	625956	285	AR161: 12, AR162: 12, AR163: 12, AR165: 12, AR164: 11, AR166: 11, AR089: 8, AR225: 7, AR178: 6, AR183: 6, AR172: 6, AR300: 5, AR224: 5, AR181: 5, AR221: 5, AR223: 5, AR170: 5, AR299: 5, AR039: 4, AR291: 4, AR096: 4, AR268: 4, AR275: 4, AR286: 4, AR274: 4, AR055: 4, AR247: 4, AR222: 4, AR269: 4, AR258: 4, AR257: 4, AR179: 3, AR240: 3, AR242: 3, AR173: 3, AR182: 3, AR262: 3, AR270: 3, AR272: 3, AR189: 3, AR316: 3, AR267: 3, AR175: 3, AR245: 3, AR313: 3, AR287: 3, AR296: 3, AR231: 2, AR210: 2, AR171: 2, AR190: 2, AR217: 2, AR205: 2, AR277: 2, AR230: 2, AR295: 2, AR290: 2, AR263: 2, AR060: 2, AR309: 2, AR191: 2, AR228: 2, AR229: 2, AR104: 2, AR261: 2, AR288: 2, AR174: 2, AR282: 2, AR246: 2, AR255: 2, AR312: 2, AR237: 2, AR169: 2, AR193: 2, AR271: 2, AR201: 2, AR233: 2, AR239: 2, AR197: 1, AR061: 1, AR226: 1, AR177: 1, AR213: 1, AR195: 1, AR033: 1, AR188: 1, AR238: 1, AR196: 1, AR185: 1, AR293: 1, AR176: 1, AR234: 1, AR227: 1 L0747: 5, H0031: 4, L0599: 4, S0045: 3,

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278	HKMLP68	1037919	288	AR060: 13, AR039: 7, AR282: 7, AR170: 7, AR252: 7, AR263: 7, AR207: 7, AR309: 7, AR299: 6, AR224: 6, AR096: 5, AR161: 5, AR162: 5, AR264: 5, AR163: 5, AR311: 5, AR165: 5, AR214: 5, AR225: 5, AR235: 5, AR164: 5, AR277: 5, AR166: 5, AR308: 5, AR245: 5, AR246: 5, AR217: 5, AR182: 5, AR168: 4, AR283: 4, AR195: 4, AR275: 4, AR316: 4, AR271: 4, AR171: 4, AR313: 4, AR261: 4, AR053: 4, AR212: 4, AR222: 4, AR272: 4, AR270: 4, AR192: 4, AR213: 4, AR274: 4, AR193: 4, AR173: 4, AR300: 4, AR286: 3, AR175: 3, AR089: 3, AR291: 3, AR180: 3, AR181: 3, AR269: 3, AR288: 3, AR223: 3, AR176: 3, AR169: 3, AR297: 3, AR289: 3, AR250: 3, AR285: 3, AR254: 3, AR201: 3, AR239: 3, AR229: 3, AR267: 3, AR104: 3, AR293: 3, AR198: 3, AR240: 3, AR230: 3, AR205: 3, AR243: 3, AR296: 3, AR196: 3, AR236: 3, AR227: 3, AR247: 3, AR216: 3, AR204: 3, AR172: 3, AR295: 3, AR268: 2, AR199: 2, AR257: 2, AR178: 2, AR055: 2, AR221: 2, AR237: 2, AR234: 2, AR174: 2, AR177: 2, AR287: 2, AR294: 2, AR188: 2, AR033: 2, AR238: 2, AR218: 2, AR231: 2, AR266: 2, AR210: 2, AR226: 2, AR228: 2, AR232: 2, AR185: 2, AR262: 2, AR061: 2, AR255: 2, AR233: 2, AR203: 2, AR191: 2, AR200: 2, AR260: 2, AR290: 2, AR189: 2, AR179: 2, AR258: 2, AR219: 2, AR197: 1, AR242: 1, AR183: 1, AR215: 1, H0620: 7, L3659: 3, S0442: 3, H0036: 3, H0150: 3, S0410: 2, H0722: 2, H0431: 2, H0012: 2, L0774: 2, H0740: 1, H0341: 1, S0358: 1, H0792: 1, H0549: 1, H0590: 1, H0746: 1, H0510: 1, H0059: 1, T0042: 1, L0475: 1, L0803: 1, L0775: 1, H0593: 1, L3215: 1, S0013: 1, L0758: 1 and H0707: 1.
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297	HLICQ90	791828	307	<p>H0163: 1, H0090: 1, H0561: 1, L0521: 1, L0766: 1, L0774: 1, L0809: 1, L0788: 1, L0665: 1, H0539: 1, H0696: 1, L0748: 1, L0749: 1, L0777: 1, H0543: 1 and H0423: 1.</p> <p>AR263: 79, AR264: 68, AR252: 65, AR246: 63, AR254: 61, AR311: 60, AR308: 54, AR053: 52, AR309: 51, AR312: 46, AR212: 41, AR205: 40, AR250: 39, AR213: 38, AR096: 37, AR272: 37, AR245: 36, AR218: 36, AR219: 36, AR243: 35, AR039: 32, AR197: 29, AR240: 26, AR198: 25, AR201: 24, AR274: 22, AR200: 22, AR313: 22, AR271: 21, AR195: 20, AR242: 18, AR221: 18, AR224: 18, AR174: 18, AR275: 18, AR165: 18, AR316: 17, AR164: 17, AR185: 17, AR104: 17, AR189: 17, AR290: 17, AR222: 17, AR210: 16, AR223: 16, AR269: 16, AR033: 16, AR188: 16, AR268: 16, AR253: 16, AR211: 16, AR166: 15, AR192: 15, AR295: 15, AR193: 14, AR173: 14, AR196: 14, AR089: 14, AR175: 14, AR296: 14, AR199: 14, AR172: 14, AR162: 13, AR161: 13, AR207: 13, AR270: 13, AR190: 13, AR180: 13, AR225: 13, AR177: 13, AR183: 13, AR291: 12, AR299: 12, AR235: 12, AR285: 12, AR163: 12, AR191: 12, AR247: 12, AR266: 12, AR171: 12, AR178: 11, AR289: 11, AR288: 11, AR060: 11, AR286: 11, AR204: 11, AR300: 11, AR297: 11, AR267: 10, AR282: 10, AR287: 10, AR255: 10, AR168: 10, AR261: 10, AR257: 10, AR283: 9, AR262: 9, AR203: 9, AR238: 9, AR215: 9, AR214: 9, AR179: 9, AR170: 8, AR181: 8, AR256: 8, AR293: 8, AR236: 8, AR231: 8, AR229: 7, AR260: 7, AR277: 7, AR182: 7, AR258: 7, AR176: 7, AR234: 7, AR226: 6, AR294: 6, AR237: 6, AR055: 6, AR169: 5, AR230: 5, AR217: 5, AR232: 5, AR216: 4, AR239: 4, AR061: 4, AR233: 4, AR227: 3, AR228: 3, H0046: 10, L0748: 6, L0758: 3, L0776: 2, L0742: 2, L0744: 2, L0750: 2, S0444: 1, S0360: 1, H0619: 1, L0717: 1, H0331: 1, H0013: 1, H0235: 1, H0355: 1, H0687: 1, H0674: 1, H0038: 1, H0623: 1, L0805: 1, L0809: 1, L0789: 1, L0789: 1, L0666: 1, L0663: 1, S0428: 1, H0520: 1, H0539: 1, S0404: 1, L0740: 1, L0749: 1, L0756: 1, S0031: 1, S0026: 1 and H0008: 1.</p>
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299	HLQBE09	520375	309	<p>AR198: 7, AR207: 7, AR235: 7, AR163: 7, AR161: 7, AR162: 7, AR228: 6, AR169: 6, AR250: 6, AR233: 5, AR176: 5, AR269: 5, AR214: 5, AR236: 5, AR229: 5, AR182: 5, AR181: 5, AR053: 5, AR197: 5, AR231: 5, AR201: 5, AR268: 4, AR257: 4, AR178: 4, AR267: 4, AR177: 4, AR239: 4, AR288: 4, AR224: 4, AR252: 4, AR191: 4, AR266: 4, AR261: 4, AR274: 4, AR243: 4, AR204: 4, AR271: 4, AR192: 4, AR294: 4, AR165: 4, AR255: 4, AR175: 4, AR262: 4, AR183: 4, AR234: 4, AR205: 4, AR179: 4, AR275: 4, AR166: 4, AR164: 3, AR230: 3, AR238: 3, AR196: 3, AR296: 3, AR287: 3, AR173: 3, AR293: 3, AR180: 3, AR270: 3, AR237: 3, AR285: 3, AR200: 3, AR174: 3, AR190: 3, AR168: 3, AR286: 3,</p>

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308	HLWAA88	588485	318	<p>AR204: 1, AR233: 1, AR199: 1, AR179: 1, AR173: 1, AR200: 1, AR258: 1, AR210: 1, AR252: 1, AR168: 1, AR256: 1, AR194: 1, AR255: 1, AR236: 1, S0410: 24, L0748: 18, S0436: 12, H0547: 8, L0731: 8, H0556: 7, H0039: 6, L0666: 6, H0046: 5, H0059: 5, L0775: 5, L0439: 5, L0755: 5, H0622: 4, L0662: 4, L0740: 4, L0751: 4, L0779: 4, H0575: 3, H0553: 3, H0529: 3, L0769: 3, L0659: 3, L5623: 3, L0588: 3, L0593: 3, S0011: 3, H0255: 2, S0418: 2, S0442: 2, S0046: 2, H0586: 2, S0049: 2, H0424: 2, H0644: 2, H0560: 2, H0561: 2, S0002: 2, S0426: 2, L0763: 2, L0772: 2, L0646: 2, L0655: 2, L0527: 2, L0518: 2, L0783: 2, L0809: 2, L0665: 2, L0438: 2, H0519: 2, H0689: 2, H0672: 2, H0555: 2, L0631: 2, S0206: 2, L0757: 2, L0758: 2, L0485: 2, L0608: 2, L0601: 2, H0543: 2, H0171: 1, H0265: 1, S0040: 1, H0294: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0484: 1, H0661: 1, H0125: 1, S0420: 1, S0354: 1, S0358: 1, S0360: 1, S0408: 1, H0580: 1, H0742: 1, S0132: 1, S0476: 1, H0550: 1, H0431: 1, H0592: 1, H0587: 1, H0333: 1, H0270: 1, H0013: 1, H0599: 1, T0082: 1, H0083: 1, H0251: 1, T0110: 1, H0545: 1, H0150: 1, H0041: 1, H0620: 1, H0024: 1, H0057: 1, H0014: 1, S0051: 1, H0083: 1, S0024: 1, H0355: 1, H0266: 1, H0271: 1, H0188: 1, S0250: 1, H0328: 1, H0615: 1, L0483: 1, H0030: 1, H0031: 1, H0111: 1, H0032: 1, H0383: 1, H0674: 1, H0211: 1, L0456: 1, H0068: 1, H0135: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, S0450: 1, H0647: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0768: 1, L0649: 1, L5574: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0807: 1, L0515: 1, L0658: 1, L0383: 1, L0663: 1, L0664: 1, S0006: 1, H0520: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, H0696: 1, S0406: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, S0434: 1, L0591: 1, L0603: 1, S0106: 1, H0668: 1, H0542: 1 and H0423: 1.</p>
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309	HLWAD77	653513	319	<p>AR263: 12, AR219: 10, AR269: 10, AR089: 10, AR290: 9, AR218: 9, AR238: 9, AR291: 9, AR282: 9, AR241: 8, AR296: 8, AR248: 8, AR268: 8, AR183: 8, AR096: 8, AR039: 8, AR277: 8, AR231: 8, AR299: 7, AR312: 7, AR316: 7, AR060: 7, AR053: 7, AR185: 7, AR313: 7, AR182: 7, AR251: 7, AR237: 6, AR192: 6, AR240: 6, AR309: 6, AR253: 6, AR314: 6, AR270: 6, AR249: 6, AR274: 6, AR266: 5, AR234: 5, AR243: 5, AR104: 5, AR186: 5, AR300: 5, AR052: 5, AR213: 5, AR265: 5, AR285: 5, AR226: 5, AR273: 5, AR298: 5, AR229: 5, AR292: 5, AR310: 4, AR267: 4, AR275: 4,</p>

310	HLWAE11	783071	320	AR247: 4, AR206: 4, AR232: 4, AR280: 4, AR284: 4, AR175: 4, AR246: 4, AR033: 3, AR315: 3, AR256: 3, AR055: 3, AR283: 3, AR286: 3, AR294: 3, AR295: 3, AR198: 3, AR227: 3, AR293: 3, AR233: 2, AR205: 2, AR061: 2, AR179: 2, AR177: 2, AR194: 2, AR281: 2, AR259: 2, AR258: 2, L0748: 10, L0759: 6, S0436: 4, S0007: 3, S0126: 3, H0659: 3, S0028: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0755: 3, S0376: 2, H0046: 2, H0673: 2, H0038: 2, H0412: 2, H0494: 2, H0529: 2, L0770: 2, L0768: 2, L0766: 2, L0805: 2, L0745: 2, L0750: 2, L0779: 2, L0757: 2, T0002: 1, L3642: 1, L3643: 1, H0583: 1, S0116: 1, H0341: 1, S0358: 1, S0444: 1, S0360: 1, L3645: 1, L3649: 1, H0580: 1, S0045: 1, S0476: 1, H0261: 1, H0642: 1, H0574: 1, H0485: 1, H0486: 1, T0040: 1, L3655: 1, H0599: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0150: 1, H0083: 1, H0266: 1, H0687: 1, S0214: 1, H0553: 1, H0372: 1, H0616: 1, H0100: 1, S0112: 1, S0438: 1, S0150: 1, H0641: 1, S0142: 1, L0764: 1, L0767: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0791: 1, L0666: 1, L0665: 1, S0428: 1, L0438: 1, H0689: 1, H0435: 1, H0660: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, L0602: 1, S0152: 1, H0522: 1, S0406: 1, S0027: 1, L0753: 1, L0731: 1, L0758: 1, S0434: 1, S0276: 1, S0196: 1 and H0423: 1.
311	HLWAO22	587270	321	AR242: 67, AR192: 47, AR164: 43, AR173: 37, AR165: 37, AR161: 36, AR195: 36, AR313: 35, AR162: 35, AR198: 34, AR166: 33, AR204: 32, AR212: 32, AR193: 30, AR163: 30, AR197: 29, AR277: 28, AR275: 28, AR245: 27, AR213: 26, AR243: 26, AR207: 26, AR053: 26, AR257: 25, AR312: 25, AR299: 25, AR264: 24, AR254: 24, AR191: 23, AR247: 23, AR308: 23, AR205: 22, AR274: 21, AR189: 21, AR263: 21, AR311: 21, AR271: 20, AR039: 19, AR104: 19, AR201: 19, AR240: 19, AR300: 19, AR199: 18, AR246: 17, AR188: 17, AR089: 17, AR309: 17, AR253: 16, AR272: 15, AR252: 15, AR282: 14, AR185: 14, AR033: 13, AR250: 12, AR096: 12, AR316: 12, AR203: 12, AR190: 11, AR176: 11, AR175: 10, AR214: 10, AR060: 10, AR258: 9, AR177: 9, AR168: 9, AR270: 8, AR283: 8, AR180: 8, AR174: 8, AR217: 8, AR235: 7, AR196: 7, AR293: 7, AR216: 7, AR170: 7, AR262: 7, AR171: 7, AR181: 7, AR236: 7, AR169: 6, AR229: 6, AR297: 6, AR224: 6, AR268: 6, AR286: 6, AR295: 6, AR261: 6, AR172: 6, AR178: 5, AR222: 5, AR238: 5, AR285: 5, AR223: 5, AR221: 5, AR269: 5, AR183: 5, AR179: 5, AR234: 5, AR289: 5, AR055: 5, AR288: 5, AR237: 5, AR233: 5, AR215: 5, AR296: 5, AR200: 5, AR255: 4, AR061: 4, AR287: 4, AR294: 4, AR226: 4, AR225: 4, AR230: 4, AR231: 4, AR291: 4, AR290: 4, AR182: 4, AR239: 4, AR266: 3, AR227: 3, AR211: 3, AR228: 3, AR210: 3, AR256: 3, AR260: 3, AR219: 3, AR267: 3, AR232: 3, AR218: 2, H0056: 2, H0050: 1, H0266: 1, H0553: 1, H0521: 1 and L0748: 1.
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314	HLWBH18 HLWBI63	889277 566842	779 324	AR271: 21, AR207: 19, AR235: 15, AR264: 14, AR263: 12, AR312: 12, AR309: 12, AR308: 12, AR195: 11, AR252: 11, AR311: 11, AR295: 11, AR245: 11, AR212: 11, AR261: 11, AR196: 10, AR313: 10, AR089: 10, AR192: 10, AR165: 10, AR198: 10, AR213: 10, AR246: 10, AR164: 10, AR191: 9, AR188: 9, AR224: 9, AR166: 9, AR177: 9, AR223: 9, AR096: 9, AR205: 9, AR253: 8, AR170: 8, AR161: 8, AR053: 8, AR162: 8, AR236: 8, AR193: 8, AR299: 8, AR163: 8, AR254: 8, AR189: 8, AR178: 8, AR214: 8, AR242: 8, AR171: 8, AR297: 8, AR285: 8, AR168: 8, AR225: 7, AR175: 7, AR216: 7, AR197: 7, AR222: 7, AR174: 7, AR190: 7, AR181: 7, AR215: 7, AR316: 7, AR169: 7, AR296: 7, AR173: 7, AR217: 7, AR282: 7, AR039: 7, AR262: 6, AR240: 6, AR180: 6, AR274: 6, AR060: 6, AR221: 6, AR288: 6, AR269: 6, AR210: 6, AR270: 6, AR243: 6, AR300: 6, AR293: 6, AR204: 6, AR275: 6, AR286: 6, AR199: 6, AR287: 6, AR200: 6, AR176: 5, AR291: 5, AR033: 5, AR268: 5, AR250: 5, AR201: 5, AR257: 5, AR172: 5, AR238: 5, AR255: 5, AR272: 5, AR260: 5, AR277: 5, AR183: 5, AR290: 5, AR258: 4, AR203: 4, AR182: 4, AR294: 4, AR104: 4, AR289: 4, AR185: 4, AR229: 4, AR237: 4, AR267: 4, AR179: 4, AR230: 4, AR247: 4, AR239: 4, AR219: 4, AR211: 4, AR226: 4, AR231: 4, AR218: 3,

315	HLWBK05	765310	325	<p>AR266: 3, AR283: 3, AR055: 3, AR232: 3, AR061: 3, AR256: 3, AR233: 3, AR234: 3, AR227: 2, AR228: 1, H0581: 3, H0436: 3, L0752: 3, S0358: 2, L0598: 2, L0766: 2, L0664: 2, L0754: 2, L0777: 2, S0114: 1, S0116: 1, H0663: 1, S0360: 1, H0645: 1, H0586: 1, H0587: 1, H0333: 1, H0331: 1, H0486: 1, S0280: 1, H0590: 1, S018: 1, H0622: 1, H0553: 1, H0598: 1, L0770: 1, L0767: 1, L0794: 1, L0803: 1, L0636: 1, L0666: 1, L0663: 1, L0665: 1, L0438: 1, H0547: 1, S0328: 1, H0555: 1, L0439: 1, S0031: 1, S0194: 1 and H0543: 1.</p> <p>AR202: 58, AR207: 41, AR281: 39, AR194: 37, AR206: 35, AR214: 33, AR244: 31, AR195: 30, AR246: 29, AR315: 28, AR222: 28, AR223: 27, AR205: 27, AR280: 26, AR169: 25, AR235: 25, AR263: 24, AR198: 24, AR192: 23, AR212: 23, AR224: 23, AR171: 21, AR314: 21, AR241: 21, AR172: 21, AR168: 20, AR311: 19, AR197: 19, AR216: 19, AR217: 19, AR213: 19, AR271: 19, AR165: 19, AR245: 19, AR225: 18, AR310: 18, AR273: 18, AR242: 18, AR243: 18, AR164: 18, AR221: 17, AR264: 17, AR265: 17, AR033: 17, AR170: 16, AR166: 16, AR053: 16, AR215: 16, AR204: 16, AR295: 16, AR274: 16, AR309: 15, AR292: 14, AR282: 14, AR284: 14, AR163: 14, AR252: 14, AR275: 14, AR162: 14, AR161: 14, AR201: 14, AR096: 13, AR285: 13, AR308: 13, AR247: 13, AR193: 13, AR052: 13, AR283: 13, AR039: 13, AR196: 13, AR312: 13, AR232: 13, AR261: 13, AR177: 13, AR210: 12, AR240: 12, AR181: 12, AR288: 12, AR277: 12, AR089: 12, AR300: 12, AR183: 12, AR211: 12, AR298: 11, AR299: 11, AR272: 11, AR313: 11, AR236: 11, AR251: 11, AR238: 11, AR175: 11, AR270: 10, AR297: 10, AR289: 10, AR174: 10, AR291: 10, AR286: 10, AR219: 10, AR296: 10, AR055: 10, AR266: 10, AR218: 10, AR186: 10, AR229: 9, AR316: 9, AR185: 9, AR269: 9, AR231: 9, AR287: 9, AR293: 9, AR268: 9, AR226: 9, AR060: 9, AR239: 8, AR234: 8, AR258: 8, AR250: 8, AR227: 8, AR254: 8, AR259: 8, AR173: 8, AR182: 8, AR199: 8, AR188: 8, AR253: 8, AR191: 8, AR294: 8, AR237: 8, AR189: 8, AR262: 8, AR184: 8, AR290: 7, AR256: 7, AR200: 7, AR257: 7, AR180: 7, AR104: 7, AR260: 7, AR061: 7, AR178: 7, AR267: 6, AR233: 6, AR230: 6, AR176: 6, AR249: 6, AR190: 6, AR255: 6, AR203: 6, AR179: 5, AR248: 5, AR228: 4, L0439: 16, L0748: 12, L0758: 9, H0013: 6, L0740: 5, L0754: 5, S0474: 4, H0265: 3, H0556: 3, H0619: 3, S0010: 3, H0266: 3, L0662: 3, L0803: 3, L0749: 3, L0752: 3, H0686: 2, S0358: 2, S0360: 2, H0632: 2, S0049: 2, H0545: 2, H0620: 2, H0594: 2, S0022: 2, H0553: 2, H0090: 2, H0100: 2, L0769: 2, L0772: 2, L0764: 2, L0794: 2, L0375: 2, L0805: 2, L0654: 2, L0776: 2, L0517: 2, L0518: 2, H0435: 2, S0406: 2, L0756: 2, L0779: 2, L0589: 2, L0591: 2, L0362: 2, H0713: 1, H0661: 1, H0663: 1, S0420: 1, L0005: 1, S0376: 1, H0749: 1, S0476: 1, S0222: 1, T0040: 1, L0021: 1, H0575: 1, H0618: 1, H0052: 1, H0563: 1, H0050: 1, H0012: 1, T0010: 1, H0083: 1, H0179: 1, H0271: 1, S0214: 1, H0622: 1, H0644: 1, H0673: 1, H0674: 1, S0036: 1, H0135: 1, H0038: 1, H0264: 1, L0351: 1, T0042: 1, S0144: 1, S0142: 1, L0369: 1, L0763: 1, L0773: 1, L0521: 1, L0649: 1, L0804: 1, L0774: 1, L5622: 1, L0788: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0693: 1, H0690: 1, H0659: 1, H0670: 1, H0648: 1, H0518: 1, S0152: 1, H0696: 1, H0134: 1, H0436: 1, S0027: 1, L3330: 1, L0742: 1, L0757: 1, H0444: 1, S0026: 1, S0196: 1, S0412: 1 and H0506: 1.</p>
316	HLWBY76	797609	326	<p>AR180: 20, AR181: 14, AR268: 6, AR219: 5, AR218: 5, AR269: 5, AR179: 5, AR273: 5, AR178: 4, AR173: 4, AR184: 4, AR183: 4, AR176: 4, AR270: 3, AR221: 3, AR215: 3, AR175: 3, AR282: 3, AR214: 3, AR052: 3, AR267: 2, AR309: 2, AR202: 2, AR253: 2, AR312: 2, AR162: 2, AR266: 2, AR182: 2, AR165: 2, AR216: 2, AR171: 2, AR190: 1, AR213: 1, AR192: 1, AR243: 1, AR186: 1, AR229: 1, AR257: 1, AR205: 1, AR053: 1, AR313: 1, AR230: 1, AR274: 1, AR174: 1, AR272: 1, AR280: 1, AR240: 1, AR252: 1, AR316: 1, AR277: 1, AR284: 1, AR263: 1, AR172: 1, AR096: 1, AR271: 1, H0553: 7, H0412: 4, L0747: 4, L0779: 4, L0777: 4, H0615: 3, L0766: 3, H0519: 3, L0755: 3, L0591: 3, H0413: 2, L0768: 2,</p>

317	HLWCF05	460619	327	<p>L0794: 2, L0754: 2, L0588: 2, H0624: 1, H0716: 1, T0049: 1, S0212: 1, S0045: 1, S0278: 1, H0497: 1, L0021: 1, T0048: 1, L0471: 1, L0194: 1, H0644: 1, L0142: 1, H0269: 1, H0056: 1, H0059: 1, L0475: 1, S0422: 1, L0761: 1, L0646: 1, L0806: 1, L0655: 1, L0789: 1, L0791: 1, H0144: 1, H0726: 1, H0547: 1, H0659: 1, H0214: 1, L0780: 1, L0757: 1, L0758: 1, L0362: 1, S0026: 1, H0665: 1, H0542: 1 and H0543: 1.</p> <p>AR196: 15, AR235: 9, AR271: 8, AR261: 8, AR309: 8, AR214: 7, AR188: 7, AR199: 7, AR191: 7, AR223: 6, AR263: 6, AR218: 6, AR189: 6, AR222: 6, AR198: 5, AR165: 5, AR312: 5, AR164: 5, AR275: 5, AR295: 5, AR166: 5, AR240: 5, AR308: 5, AR190: 5, AR311: 5, AR282: 4, AR264: 4, AR224: 4, AR161: 4, AR162: 4, AR096: 4, AR216: 4, AR163: 4, AR217: 4, AR039: 4, AR195: 4, AR089: 4, AR296: 4, AR177: 4, AR246: 4, AR285: 4, AR288: 4, AR200: 4, AR210: 4, AR219: 4, AR175: 4, AR183: 4, AR168: 4, AR236: 4, AR207: 4, AR253: 4, AR174: 4, AR299: 4, AR178: 4, AR192: 3, AR060: 3, AR203: 3, AR316: 3, AR181: 3, AR238: 3, AR213: 3, AR257: 3, AR212: 3, AR237: 3, AR245: 3, AR173: 3, AR268: 3, AR242: 3, AR250: 3, AR104: 3, AR274: 3, AR182: 3, AR272: 3, AR270: 3, AR269: 3, AR291: 3, AR221: 3, AR053: 3, AR262: 3, AR225: 3, AR258: 3, AR226: 3, AR289: 3, AR176: 3, AR232: 2, AR234: 2, AR193: 2, AR277: 2, AR211: 2, AR239: 2, AR267: 2, AR300: 2, AR287: 2, AR172: 2, AR205: 2, AR297: 2, AR294: 2, AR180: 2, AR231: 2, AR313: 2, AR185: 2, AR229: 2, AR171: 2, AR033: 2, AR286: 2, AR290: 2, AR293: 2, AR197: 2, AR233: 2, AR215: 2, AR243: 2, AR201: 2, AR061: 2, AR227: 2, AR179: 2, AR228: 2, AR283: 1, AR255: 1, AR247: 1, AR260: 1, AR230: 1, AR266: 1, L0439: 9, L0766: 7, H0521: 5, L0740: 5, L0758: 5, S0010: 4, L0749: 4, H0038: 3, L0805: 3, L0748: 3, L0777: 3, H0657: 2, H0341: 2, S0418: 2, S0444: 2, S0410: 2, S0476: 2, S0477: 2, L3655: 2, H0013: 2, H0553: 2, H0032: 2, H0169: 2, L0455: 2, H0040: 2, S0422: 2, H0529: 2, L0667: 2, L0662: 2, L0768: 2, L0519: 2, L0754: 2, L0747: 2, L0750: 2, L0779: 2, L0731: 2, S0434: 2, S0436: 2, L0592: 2, S0412: 2, H0556: 1, T0002: 1, S0114: 1, S0116: 1, L0879: 1, H0638: 1, S0420: 1, S0356: 1, S0376: 1, S0408: 1, L1499: 1, H0749: 1, H0619: 1, L2817: 1, L3485: 1, H0586: 1, H0587: 1, H0333: 1, H0574: 1, H0632: 1, T0039: 1, L1788: 1, L1877: 1, L0021: 1, L0022: 1, H0575: 1, S0474: 1, H0581: 1, H0457: 1, H0320: 1, H0014: 1, L0163: 1, H0375: 1, H0188: 1, S0250: 1, L0483: 1, H0598: 1, H0163: 1, H0591: 1, H0616: 1, H0623: 1, H0100: 1, H0494: 1, S0440: 1, L0598: 1, L0763: 1, L0769: 1, L0638: 1, L0800: 1, L0641: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0776: 1, L0527: 1, L0659: 1, L0635: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0428: 1, L2653: 1, L2261: 1, H0519: 1, H0435: 1, H0670: 1, H0672: 1, H0539: 1, H0696: 1, S0406: 1, H0436: 1, H0727: 1, L0755: 1, L0485: 1, H0423: 1 and H0506: 1.</p>
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319	HLYAF80	460622	329	<p>AR169: 9, AR263: 9, AR221: 8, AR253: 7, AR207: 7, AR171: 7, AR217: 7, AR168: 7, AR224: 7, AR309: 7, AR223: 6,</p>

320	HLYAN59	1352203	330	<p>AR235: 6, AR242: 6, AR225: 6, AR311: 6, AR172: 6, AR282: 6, AR053: 6, AR192: 6, AR245: 5, AR264: 5, AR216: 5, AR170: 5, AR165: 5, AR214: 5, AR164: 5, AR195: 5, AR308: 5, AR212: 5, AR166: 5, AR198: 5, AR261: 5, AR089: 5, AR252: 5, AR222: 5, AR213: 5, AR161: 5, AR162: 5, AR163: 4, AR246: 4, AR274: 4, AR275: 4, AR277: 4, AR240: 4, AR312: 4, AR205: 4, AR316: 4, AR286: 4, AR096: 4, AR283: 4, AR193: 4, AR196: 4, AR060: 4, AR199: 3, AR272: 3, AR295: 3, AR288: 3, AR176: 3, AR177: 3, AR313: 3, AR181: 3, AR033: 3, AR185: 3, AR200: 3, AR271: 3, AR297: 3, AR175: 3, AR289: 3, AR236: 3, AR300: 3, AR291: 3, AR270: 3, AR296: 3, AR254: 3, AR247: 3, AR285: 3, AR201: 3, AR257: 3, AR203: 3, AR104: 3, AR299: 3, AR269: 3, AR262: 3, AR174: 2, AR180: 2, AR197: 2, AR173: 2, AR238: 2, AR287: 2, AR190: 2, AR255: 2, AR268: 2, AR039: 2, AR294: 2, AR189: 2, AR239: 2, AR293: 2, AR231: 2, AR188: 2, AR234: 2, AR055: 2, AR191: 2, AR290: 2, AR267: 2, AR226: 2, AR266: 2, AR183: 2, AR232: 2, AR237: 2, AR230: 2, AR233: 2, AR227: 2, AR178: 2, AR228: 2, AR061: 2, AR210: 1, AR219: 1, AR211: 1, AR182: 1, AR256: 1, AR218: 1, AR258: 1, AR179: 1, AR243: 1, AR260: 1, AR229: 1 H0445: 1</p>
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321	HLYAN59	553507	780	<p>AR214: 10, AR207: 9, AR169: 8, AR224: 8, AR165: 7, AR168: 7, AR235: 7, AR170: 7, AR164: 7, AR192: 7, AR223: 7, AR222: 7, AR161: 7, AR162: 7, AR053: 7, AR263: 7, AR163: 7, AR195: 7, AR264: 6, AR245: 6, AR166: 6, AR198: 6, AR309: 6, AR172: 6, AR171: 6, AR180: 6, AR196: 6, AR216: 6, AR312: 6, AR089: 6, AR308: 6, AR213: 6, AR225: 6, AR212: 5, AR282: 5, AR250: 5, AR271: 5, AR217: 5, AR096: 5, AR177: 5, AR313: 4, AR253: 4, AR199: 4, AR311: 4, AR277: 4, AR193: 4, AR254: 4, AR316: 4, AR246: 4, AR261: 4, AR283: 4, AR295: 4, AR060: 4, AR288: 4, AR236: 4, AR275: 4, AR240: 4, AR297: 4, AR215: 4, AR055: 4, AR270: 4, AR299: 3, AR238: 3, AR185: 3, AR285: 3, AR286: 3, AR296: 3, AR252: 3, AR247: 3, AR183: 3, AR269: 3, AR291: 3, AR191: 3, AR300: 3, AR178: 3, AR230: 3, AR237: 3, AR262: 3, AR257: 3, AR173: 3, AR255: 3, AR104: 3, AR200: 3, AR179: 3, AR197: 3, AR189: 3, AR227: 3, AR210: 3, AR289: 3, AR272: 3, AR181: 3, AR293: 3, AR239: 3, AR226: 3, AR258: 3, AR201: 3, AR204: 3, AR174: 3, AR188: 3, AR190: 3, AR218: 2, AR232: 2, AR268: 2, AR231: 2, AR033: 2, AR175: 2, AR243: 2, AR229: 2, AR182: 2, AR211: 2, AR203: 2, AR221: 2, AR233: 2, AR176: 2, AR234: 2, AR061: 2, AR294: 2, AR290: 2, AR287: 2, AR219: 2, AR205: 2,</p>
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323	HL YBD32	566657	333	AR250: 5, AR253: 4, AR243: 4, AR165: 4, AR271: 3, AR166: 3, AR164: 3, AR235: 3, AR229: 3, AR225: 3, AR193: 3, AR245: 3, AR163: 3, AR170: 3, AR309: 3, AR096: 3, AR178: 3, AR196: 2, AR282: 2, AR313: 2, AR261: 2, AR291: 2, AR191: 2, AR270: 2, AR268: 2, AR201: 2, AR217: 2, AR264: 2, AR089: 2, AR277: 2, AR216: 2, AR182: 2, AR055: 2, AR171: 2, AR188: 2, AR266: 2, AR212: 2, AR228: 2, AR240: 2, AR267: 2, AR312: 2, AR300: 2, AR257: 1, AR195: 1, AR247: 1, AR274: 1, AR213: 1, AR173: 1, AR290: 1, AR189: 1, AR179: 1, AR299: 1, AR230: 1, AR199: 1, AR316: 1, AR238: 1, AR205: 1, AR060: 1, AR200: 1, L0777: 2, H0445: 2, H0318: 1, T0071: 1, S0426: 1, S0428: 1 and L0740: 1.
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343	HMSHM14	461897	353	<p>AR291: 18, AR168: 18, AR195: 17, AR231: 17, AR299: 17, AR182: 16, AR238: 16, AR178: 16, AR288: 16, AR039: 16, AR181: 16, AR215: 16, AR193: 15, AR200: 14, AR176: 14, AR266: 14, AR179: 14, AR300: 14, AR033: 13, AR198: 13, AR104: 13, AR296: 13, AR257: 13, AR236: 12, AR261: 12, AR258: 12, AR282: 12, AR242: 12, AR177: 12, AR203: 12, AR297: 11, AR256: 11, AR289: 11, AR294: 11, AR192: 10, AR287: 10, AR286: 10, AR247: 10, AR293: 9, AR239: 9, AR235: 9, AR226: 9, AR262: 9, AR237: 9, AR260: 9, AR232: 9, AR234: 8, AR233: 7, AR207: 7, AR277: 7, AR229: 6, AR204: 6, AR230: 5, AR228: 5, AR227: 5, AR283: 5, AR061: 3, AR055: 3, L0754: 14, L0752: 14, S0360: 11, L0742: 10, L0758: 9, H0341: 8, H0551: 8, L0750: 8, H0046: 7, S0003: 7, L0749: 7, H0170: 6, S0354: 6, S0408: 6, L0483: 6, H0038: 6, L0771: 6, H0144: 6, S0152: 6, L0439: 6, L0747: 6, H0543: 6, H0486: 5, S0440: 5, L0775: 5, S0374: 5, S0126: 5, S0380: 5, L0745: 5, H0013: 4, T0067: 4, S0002: 4, L0769: 4, L0662: 4, L0774: 4, L0806: 4, L0664: 4, L0665: 4, L0740: 4, S0026: 4, S0192: 4, H0624: 3, H0580: 3, H0581: 3, H0050: 3, H0039: 3, H0622: 3, H0031: 3, S0142: 3, L0520: 3, L0646: 3, L0766: 3, L0518: 3, L0438: 3, H0547: 3, H0659: 3, L0731: 3, L0596: 3, S0116: 2, H0662: 2, H0638: 2, S0358: 2, S0376: 2, S0046: 2, H0393: 2, H0431: 2, S0280: 2, H0156: 2, H0575: 2, H0327: 2, L0471: 2, H0620: 2, H0051: 2, H0083: 2, H0553: 2, H0644: 2, H0032: 2, H0090: 2, H0616: 2, T0042: 2, S0438: 2, H0529: 2, L0761: 2, L0764: 2, L0649: 2, L0653: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0520: 2, H0519: 2, H0658: 2, H0670: 2, H0660: 2, H0539: 2, H0521: 2, H0522: 2, H0696: 2, S012: 2, L0759: 2, S0031: 2, H0595: 2, S0434: 2, L0589: 2, L0605: 2, L0608: 2, L0604: 2, L0593: 2, L0601: 2, H0667: 2, S0194: 2, H0171: 1, T0002: 1, H0220: 1, H0159: 1, S0342: 1, S0218: 1, H0650: 1, H0656: 1, H0669: 1, H0664: 1, L0481: 1, S0418: 1, S0356: 1, S0442: 1, H0637: 1, S0045: 1, H0619: 1, H0437: 1, H0549: 1, S0222: 1, H0600: 1, H0586: 1, H0587: 1, H0574: 1, T0114: 1, H0427: 1, L0021: 1, H0599: 1, H0042: 1, H0590: 1, H0004: 1, S0010: 1, S0346: 1, H0251: 1, H0545: 1, H0172: 1, H0012: 1, H0014: 1, H0373: 1, S0388: 1, H0275: 1, S0250: 1, S0214: 1, H0328: 1, H0615: 1, H0628: 1, H0598: 1, H0591: 1, H0634: 1, H0264: 1, H0412: 1, H0413: 1, H0623: 1, H0059: 1, T0041: 1, H0560: 1, H0625: 1, H0366: 1, S0450: 1, H0130: 1, H0641: 1, H0647: 1, H0649: 1, H0652: 1, S0144: 1, S0344: 1, S0422: 1, L0762: 1, L0763: 1, L0637: 1, L0772: 1, L0372: 1, L0768: 1, L0794: 1, L0387: 1, L0661: 1, L0629: 1, L0788: 1, L0792: 1, H0593: 1, H0689: 1, H0711: 1, H0435: 1, H0666: 1, H0648: 1, H0672: 1, H0710: 1, H0518: 1, S0190: 1, H0694: 1, H0436: 1, S014: 1, S0028: 1, L0777: 1, L0780: 1, L0757: 1, H0444: 1, H0445: 1, H0343: 1, L0592: 1, H0665: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.</p>
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344	HMSHS36	1127691	354	AR039: 6, AR055: 5, AR218: 5, AR060: 5, AR300: 5, AR185: 4, AR313: 4, AR299: 4, AR240: 4, AR104: 3, AR316: 3, AR096: 3, AR282: 3, AR089: 3, AR283: 2, AR277: 1 S0002: 1
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345	HMSJM65	633637	355	AR282: 6, AR218: 6, AR055: 4, AR060: 4, AR313: 4, AR104: 4, AR219: 4, AR300: 3, AR299: 3, AR039: 3, AR096: 3, AR316: 3, AR283: 2, AR240: 2, AR089: 2, AR185: 2, AR277: 2 L0794: 4, L0752: 4, L0755: 3, H0090: 2, S0002: 2, L0747: 2, L0756: 2, L0777: 2, L0757: 2, S0442: 1, S0444: 1, L0717: 1, H0013: 1, H0263: 1, T0110: 1, H0615: 1, T0006: 1, H0488: 1, H0743: 1, L0770: 1, L0764: 1, L0766: 1, L0803: 1, L0805: 1, L0776: 1, L0659: 1, L0809: 1, L0790: 1, L0791: 1, H0519: 1, H0670: 1, H0672: 1, S0406: 1, L0744: 1, L0731: 1, H0445: 1, S0436: 1 and L0599: 1.
346	HMSJU68	427121	356	AR089: 10, AR055: 9, AR060: 7, AR039: 7, AR185: 7, AR313: 7, AR300: 6, AR218: 6, AR316: 5, AR240: 5, AR104: 5, AR096: 5, AR299: 4, AR283: 4, AR277: 3, AR282: 3, AR219: 2 L0560: 5, L0545: 4, S0002: 2, L5574: 2, H0240: 1, S0046: 1, H0333: 1, H0597: 1, H0014: 1, L5569: 1, L0533: 1, L0519: 1, L0544: 1, S0374: 1, H0520: 1, S0454: 1, S0406: 1 and L3813: 1.
347	HMSKC04	799540	357	AR313: 12, AR173: 10, AR161: 9, AR162: 9, AR163: 9, AR258: 7, AR196: 7, AR175: 7, AR257: 7, AR240: 7, AR247: 6, AR262: 6, AR264: 6, AR180: 6, AR096: 6, AR179: 6, AR183: 6, AR185: 6, AR269: 6, AR176: 6, AR274: 6, AR234: 6, AR299: 5, AR191: 5, AR233: 5, AR229: 5, AR181: 5, AR293: 5, AR178: 5, AR291: 5, AR300: 5, AR287: 5, AR270: 5, AR089: 5, AR275: 5, AR236: 5, AR255: 5, AR266: 5, AR218: 5, AR296: 4, AR199: 4, AR294: 4, AR231: 4, AR238: 4, AR177: 4, AR182: 4, AR268: 4, AR297: 4, AR226: 4, AR260: 4, AR174: 4, AR219: 4, AR228: 4, AR261: 4, AR267: 4, AR203: 4, AR316: 4, AR200: 4, AR285: 4, AR290: 4, AR288: 3, AR239: 3, AR215: 3, AR309: 3, AR189: 3, AR230: 3, AR286: 3, AR237: 3, AR172: 3, AR295: 3, AR190: 3, AR245: 3, AR033: 3, AR033: 3, AR053: 3, AR312: 3, AR311: 3, AR060: 3, AR272: 3, AR104: 2, AR165: 2, AR164: 2, AR250: 2, AR166: 2, AR282: 2, AR263: 2, AR227: 2, AR232: 2, AR171: 2, AR243: 2, AR170: 2, AR289: 2, AR308: 2, AR039: 2, AR213: 2, AR061: 2, AR055: 2, AR210: 2, AR225: 2, AR256: 2, AR212: 1, AR235: 1, AR211: 1, AR193: 1, AR216: 1, AR201: 1, AR205: 1 H0264: 2, S0002: 2, S0114: 1 and H0416: 1.
348	HMTBI36	1301451	358	AR252: 11, AR245: 9, AR250: 8, AR165: 8, AR166: 8, AR164: 8, AR161: 7, AR162: 7, AR163: 7, AR253: 7, AR271: 7, AR254: 7, AR180: 7, AR197: 6, AR174: 6, AR176: 6, AR272: 5, AR264: 5, AR207: 5, AR181: 4, AR274: 4, AR308: 4, AR195: 4, AR311: 4, AR060: 4, AR178: 4, AR212: 3, AR312: 3, AR172: 3, AR270: 3, AR263: 3, AR221: 3, AR189: 3, AR182: 3, AR171: 3, AR190: 3, AR275: 3, AR193: 3, AR224: 3, AR282: 3, AR173: 3, AR243: 3, AR191: 3, AR089: 3, AR309: 3, AR299: 3, AR222: 3, AR257: 3, AR240: 2, AR267: 2, AR246: 2, AR313: 2, AR241: 2, AR288: 2, AR268: 2, AR291: 2, AR175: 2, AR310: 2, AR196: 2, AR096: 2, AR188: 2, AR177: 2, AR247: 2, AR192: 2, AR290: 2, AR053: 2, AR183: 2, AR225: 2, AR261: 2, AR238: 2, AR198: 2, AR269: 2, AR255: 2, AR297: 2, AR287: 2, AR204: 2, AR266: 2, AR239: 2, AR289: 2, AR213: 2, AR179: 2, AR033: 2, AR205: 2, AR210: 2, AR201: 2, AR277: 2, AR300: 1, AR185: 1, AR316: 1, AR214: 1, AR039: 1, AR104: 1, AR237: 1, AR285: 1, AR286: 1, AR194: 1, AR186: 1, AR293: 1, AR232: 1, AR295: 1 L0794: 25, L0766: 14, H0457: 10, L0809: 8, L0761: 7, L0659: 7, L0764: 6, L0803: 6, H0255: 4, H0624: 3, H0747: 3, H0592: 3, H0581: 3, L0768: 3, L0787: 3, L0789: 3, L0747: 3, S0045: 2, H0749: 2, L0717: 2, H0617: 2, L0648: 2, L0806: 2, L0783: 2, L0666: 2, H0703: 2, L0743: 2, L0750: 2, L0779: 2, H0657: 1, L0785: 1, H0661: 1, H0402: 1, S0420: 1, S0354: 1, H0580: 1, S0222: 1, H0600: 1, H0586: 1, H0587: 1, H0559: 1, H0069: 1, H0318: 1, S0474: 1, H0421: 1, H0439: 1,

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	HMUAP70	778820	788	
	HMUAP70	674913	789	
	HMUAP70	646810	790	
	HMUAP70	381964	791	
350	HMVBN46	626667	360	AR207: 5, AR242: 4, AR053: 4, AR225: 4, AR205: 4, AR198: 3, AR192: 3, AR165: 3, AR162: 3, AR161: 3, AR215: 3, AR196: 3, AR222: 3, AR235: 3, AR197: 3, AR217: 3, AR214: 3, AR263: 2, AR201: 2, AR264: 2, AR193: 2, AR311: 2, AR216: 2, AR180: 2, AR236: 2, AR033: 2, AR261: 2, AR257: 2, AR164: 2, AR285: 2, AR221: 2, AR243: 2, AR296: 2, AR295: 2, AR168: 2, AR254: 2, AR174: 2, AR189: 2, AR246: 2, AR191: 2, AR288: 2, AR316: 2, AR188: 2, AR287: 2, AR195: 2, AR200: 2, AR185: 2, AR277: 2, AR255: 2, AR299: 2, AR176: 2, AR224: 2, AR230: 2, AR313: 2, AR039: 2, AR229: 2, AR270: 2, AR293: 2, AR177: 2, AR181: 2, AR312: 2, AR183: 2, AR308: 2, AR166: 2, AR300: 2, AR238: 2, AR175: 2, AR268: 2, AR089: 2, AR190: 1, AR274: 1, AR204: 1, AR199: 1, AR262: 1, AR226: 1, AR237: 1, AR258: 1, AR182: 1, AR272: 1, AR239: 1, AR234: 1, AR228: 1, AR231: 1, AR269: 1, AR227: 1, AR297: 1, AR211: 1, AR309: 1, AR286: 1, AR240: 1, AR096: 1, AR203: 1, AR060: 1, AR055: 1, AR291: 1, S0212: 1 and S0106: 1.
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356	HNFEC43	753337	366		AR273: 25, AR052: 20, AR274: 13, AR218: 10, AR241: 9, AR248: 9, AR277: 8, AR265: 8, AR186: 8, AR249: 8, AR312: 8, AR271: 8, AR313: 8, AR309: 7, AR183: 7, AR253: 7, AR299: 7, AR244: 6, AR251: 6, AR292: 6, AR219: 6, AR175: 6, AR310: 6, AR096: 5, AR213: 5, AR185: 5, AR053: 5, AR275: 5, AR202: 5, AR282: 5, AR039: 4, AR269: 4, AR270: 4, AR206: 4, AR055: 4, AR177: 4, AR225: 4, AR089: 4, AR060: 4, AR192: 4, AR293: 4, AR243: 4, AR280: 4, AR247: 4, AR300: 4, AR104: 4, AR033: 4, AR240: 4, AR061: 3, AR204: 3, AR217: 3, AR246: 3, AR316: 3, AR268: 3, AR165: 3, AR180: 3, AR198: 3, AR315: 3, AR164: 3, AR166: 3, AR184: 3, AR205: 3, AR264: 3, AR294: 3, AR314: 3, AR284: 3, AR290: 3, AR295: 2, AR168: 2, AR259: 2, AR267: 2, AR256: 2, AR179: 2, AR161: 2, AR221: 2, AR257: 2, AR163: 2, AR162: 2, AR170: 2, AR291: 2, AR200: 2, AR236: 2, AR262: 2, AR193: 2, AR283: 2, AR174: 2, AR197: 2, AR298: 2, AR233: 1, AR181: 1, AR222: 1, AR287: 1, AR258: 1, AR195: 1, AR194: 1, AR229: 1, AR196: 1, AR182: 1, AR173: 1, AR234: 1, AR239: 1, AR235: 1, AR230: 1, AR216: 1, H0521: 6, H0036: 2, H0052: 2, H0271: 2, H0551: 2, H0543: 2, H0265: 1, H0556: 1, S0354: 1, H0392: 1, H0581: 1, H0063: 1, H0059: 1, H0494: 1, H0561: 1, L3829: 1, H0520: 1, H0522: 1, S0436: 1, L0595: 1, H0506: 1 and L0600: 1.

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	HNHEI42	842223	799		
	HNHEI42	823723	800		
389	HNHFO29	463568	399		AR089: 9, AR313: 8, AR039: 8, AR060: 7, AR268: 6, AR299: 6, AR096: 6, AR310: 5, AR055: 5, AR249: 5, AR291: 5, AR185: 5, AR186: 4, AR104: 4, AR277: 4, AR052: 4, AR309: 4, AR316: 4, AR270: 4, AR282: 4, AR061: 4, AR162: 4, AR161: 4, AR165: 4, AR164: 3, AR269: 3, AR235: 3, AR300: 3, AR289: 3, AR166: 3, AR170: 3, AR183: 3, AR272: 3, AR271: 3, AR182: 3, AR283: 3, AR184: 3, AR053: 3, AR218: 3, AR312: 3, AR176: 3, AR298: 3, AR251: 3, AR248: 3, AR266: 3, AR169: 3, AR163: 3, AR240: 3, AR247: 3, AR180: 3, AR172: 3, AR284: 2, AR296: 2, AR253: 2, AR292: 2, AR219: 2, AR263: 2, AR245: 2, AR233: 2, AR229: 2, AR294: 2, AR286: 2, AR308: 2, AR228: 2, AR033: 2, AR293: 2, AR201: 2, AR225: 2, AR174: 2, AR234: 2, AR237: 2, AR181: 2, AR231: 2, AR238: 2, AR262: 2, AR175: 2, AR197: 2, AR223: 2, AR206: 2, AR177: 2, AR198: 2, AR285: 2, AR188: 2, AR171: 1, AR295: 1, AR214: 1, AR196: 1, AR243: 1, AR226: 1, AR297: 1, AR204: 1, AR227: 1, AR287: 1, AR274: 1, AR230: 1, AR179: 1, AR239: 1, AR210: 1, AR190: 1, AR264: 1, AR222: 1, AR290: 1, AR257: 1, AR241: 1, AR191: 1 T0042: 1 and S0053: 1.
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415	HOEDH84	748236	425	<p>AR170: 4, AR221: 3, AR266: 3, AR033: 3, AR296: 3, AR176: 3, AR311: 2, AR183: 2, AR180: 2, AR286: 2, AR233: 2, AR204: 2, AR232: 2, AR257: 1, AR216: 1, AR291: 1, AR300: 1, AR255: 1, AR172: 1, AR283: 1, AR299: 1, AR225: 1, AR270: 1 S0126: 3, L0731: 2, S0040: 1, S0356: 1, H0370: 1, H0031: 1 and H0633: 1.</p>
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	HOFMQ33	902639	810	
	HOFMQ33	702186	811	
418	HOFMT75	911180	428	AR192: 4, AR225: 3, AR217: 2, AR235: 2, AR172: 2, AR183: 2, AR254: 2, AR168: 2, AR266: 2, AR170: 1, AR309: 1, AR193: 1, AR180: 1, AR270: 1, AR175: 1, AR282: 1, AR165: 1, AR224: 1, AR277: 1, AR164: 1, AR300: 1, AR264: 1, AR039: 1, AR216: 1, AR291: 1, AR240: 1 H0415: 3, S0002: 2, S0212: 1, H0255: 1, S0358: 1, H0318: 1, H0045: 1, H0264: 1, S0144: 1, H0555: 1 and L0741: 1.
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	HOFMT75	892308	813	
	HOFMT75	892291	814	
419	HOFNC14	1352378	429	AR263: 5, AR171: 4, AR213: 4, AR282: 4, AR205: 3, AR169: 3, AR235: 3, AR246: 3, AR162: 2, AR161: 2, AR180: 2, AR221: 2, AR178: 2, AR176: 2, AR245: 2, AR287: 2, AR183: 2, AR163: 2, AR311: 2, AR089: 1, AR309: 1, AR264: 1, AR104: 1, AR033: 1, AR191: 1, AR230: 1 H0415: 1
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420	HOFND85	847424	430	AR165: 3, AR162: 3, AR170: 3, AR241: 3, AR221: 2, AR171: 2, AR169: 2, AR269: 2, AR201: 2, AR195: 2, AR164: 2, AR166: 2, AR272: 2, AR212: 2, AR180: 2, AR210: 2, AR193: 2, AR204: 2, AR236: 2, AR294: 2, AR246: 2, AR243: 2, AR199: 1, AR284: 1, AR203: 1, AR282: 1, AR310: 1, AR273: 1, AR161: 1, AR096: 1, AR163: 1, AR089: 1, AR183: 1, AR283: 1, AR288: 1
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	HOFOC33	905734	818	
	HOFOC33	902326	819	
	HOFOC33	885140	820	
	HOFOC33	806819	821	
423	HOFOC73	931871	433	AR294: 16, AR169: 6, AR245: 6, AR192: 6, AR170: 6, AR195: 6, AR263: 5, AR039: 5, AR164: 4, AR165: 4, AR215: 4, AR053: 4, AR266: 4, AR172: 4, AR161: 4, AR212: 4, AR162: 4, AR089: 4, AR222: 4, AR223: 4, AR213: 4, AR274: 4, AR261: 3, AR254: 3, AR272: 3, AR221: 3, AR264: 3, AR171: 3, AR205: 3, AR225: 3, AR168: 3, AR193: 3, AR060: 3, AR217: 3, AR277: 3, AR096: 3, AR224: 3, AR282: 3, AR175: 3, AR308: 3, AR312: 3, AR214: 3, AR196: 3, AR288: 3,

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	HOF0C73	907072	823	
	HOF0C73	878863	824	
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	HOGCS52	867965	828
428	HOHBB49	833080	438

429	HOHBC68	603968	439	AR266: 2, AR171: 2, AR256: 2, AR219: 2, AR216: 1, AR224: 1, AR197: 1 S0250: 1 and S0011: 1. AR207: 10, AR277: 8, AR252: 7, AR223: 7, AR214: 6, AR224: 6, AR165: 6, AR164: 6, AR168: 6, AR263: 6, AR166: 6, AR192: 5, AR264: 5, AR309: 5, AR266: 5, AR216: 5, AR245: 5, AR311: 5, AR161: 5, AR162: 5, AR163: 4, AR261: 4, AR193: 4, AR308: 4, AR246: 4, AR283: 4, AR171: 4, AR271: 4, AR242: 4, AR053: 4, AR172: 4, AR195: 4, AR282: 4, AR225: 4, AR240: 4, AR286: 4, AR213: 3, AR312: 3, AR275: 3, AR270: 3, AR288: 3, AR205: 3, AR222: 3, AR196: 3, AR212: 3, AR180: 3, AR177: 3, AR285: 3, AR204: 3, AR188: 3, AR297: 3, AR197: 3, AR289: 3, AR104: 3, AR291: 3, AR254: 3, AR313: 3, AR272: 3, AR236: 3, AR300: 3, AR316: 3, AR239: 3, AR269: 3, AR294: 3, AR201: 3, AR210: 3, AR295: 3, AR268: 3, AR253: 3, AR262: 3, AR039: 3, AR267: 2, AR089: 2, AR274: 2, AR226: 2, AR296: 2, AR096: 2, AR175: 2, AR182: 2, AR191: 2, AR299: 2, AR238: 2, AR293: 2, AR174: 2, AR243: 2, AR033: 2, AR287: 2, AR061: 2, AR255: 2, AR055: 2, AR257: 2, AR234: 2, AR173: 2, AR060: 2, AR179: 2, AR232: 2, AR237: 2, AR185: 2, AR258: 2, AR290: 2, AR189: 2, AR181: 2, AR233: 2, AR200: 2, AR229: 2, AR237: 2, AR231: 2, AR247: 2, AR178: 2, AR199: 2, AR219: 2, AR221: 2, AR260: 1, AR230: 1, AR228: 1, AR190: 1, AR203: 1, AR218: 1, AR217: 1, AR176: 1, AR198: 1 H0544: 1 and S0250: 1.
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	HOHBY44	785886	830	
432	HOHCC74	547977	442	AR060: 8, AR188: 7, AR181: 7, AR161: 7, AR185: 7, AR182: 6, AR294: 6, AR104: 6, AR291: 6, AR296: 6, AR285: 6, AR060: 8, AR188: 7, AR181: 7, AR161: 7, AR185: 7, AR182: 6, AR294: 6, AR104: 6, AR291: 6, AR296: 6, AR285: 6,

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	HPASA81	801923	836	
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445	HPEAD48	520367	455	AR196: 9, AR161: 9, AR162: 9, AR163: 8, AR173: 8, AR169: 8, AR171: 8, AR313: 7, AR168: 7, AR223: 7, AR175: 6, AR263: 6, AR240: 6, AR096: 6, AR258: 6, AR180: 5, AR264: 5, AR261: 5, AR262: 5, AR257: 5, AR229: 5, AR176: 5, AR165: 5, AR300: 5, AR282: 5, AR164: 5, AR214: 5, AR269: 5, AR185: 5, AR275: 5, AR089: 5, AR166: 5, AR274: 4, AR270: 4, AR174: 4, AR199: 4, AR181: 4, AR217: 4, AR179: 4, AR191: 4, AR253: 4, AR247: 4, AR183: 4, AR234: 4, AR170: 4, AR266: 4, AR177: 4, AR299: 4, AR218: 4, AR236: 4, AR309: 4, AR312: 4, AR238: 4, AR316: 4, AR233: 4, AR235: 4, AR189: 4, AR215: 4, AR213: 4, AR311: 4, AR225: 3, AR224: 3, AR277: 3, AR293: 3, AR200: 3, AR212: 3, AR104: 3, AR033: 3, AR178: 3, AR226: 3, AR255: 3, AR230: 3, AR296: 3, AR268: 3, AR060: 3, AR203: 3, AR291: 3, AR188: 3, AR237: 3, AR172: 3, AR182: 3, AR285: 3, AR283: 3, AR198: 3, AR216: 2, AR192: 2, AR219: 2, AR228: 2, AR227: 2, AR295: 2, AR287: 2, AR267: 2, AR286: 2, AR260: 2, AR294: 2, AR239: 2, AR231: 2, AR297: 2, AR201: 2, AR290: 2, AR222: 2, AR053: 2, AR272: 2, AR190: 2, AR289: 2, AR288: 2, AR256: 2, AR204: 2, AR232: 2, AR207: 1, AR210: 1, AR055: 1, AR197: 1, AR193: 1, AR308: 1, AR205: 1, H0165: 1
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451	HPICB53	1042309	461	AR313: 55, AR196: 31, AR173: 27, AR165: 25, AR164: 24, AR161: 23, AR162: 23, AR166: 23, AR096: 22, AR242: 22, AR258: 21, AR089: 21, AR229: 20, AR163: 19, AR180: 19, AR262: 19, AR247: 19, AR175: 19, AR240: 18, AR300: 18, AR199: 18, AR234: 17, AR179: 17, AR185: 17, AR299: 17, AR174: 16, AR257: 16, AR312: 15, AR238: 14, AR218: 14, AR178: 14, AR182: 14, AR200: 14, AR191: 14, AR296: 14, AR285: 13, AR181: 13, AR293: 13, AR264: 13, AR269: 13, AR177: 13, AR275: 13, AR226: 13, AR183: 13, AR233: 13, AR219: 12, AR236: 12, AR192: 12, AR230: 12, AR316: 12, AR060: 12, AR193: 12, AR189: 12, AR203: 12, AR294: 11, AR270: 11, AR053: 11, AR260: 11, AR039: 11, AR297: 10, AR231: 10, AR282: 10, AR287: 10, AR255: 9, AR188: 9, AR274: 9, AR237: 9, AR261: 9, AR228: 9, AR212: 9, AR268: 9, AR286: 9, AR295: 8, AR277: 8, AR033: 8, AR288: 8, AR239: 7, AR245: 7, AR104: 7, AR235: 7, AR263: 7, AR290: 7, AR267: 7, AR190: 7, AR227: 7, AR198: 7, AR308: 7, AR311: 7, AR176: 6, AR250: 6, AR309: 6, AR207: 6, AR254: 6, AR201: 6, AR197: 6, AR291: 6, AR256: 5, AR266: 5, AR243: 5, AR204: 5, AR195: 5, AR271: 5, AR272: 5, AR211: 5, AR210: 5, AR283: 5, AR221: 4, AR252: 4, AR289: 4, AR232: 4, AR055: 3, AR253: 3, AR205: 3, AR061: 3, AR217: 2, AR246: 2, AR214: 2, AR223: 2, AR216: 2, AR171: 2, AR168: 2, AR222: 2, AR225: 1, AR215: 1, AR172: 1 S0150: 1
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	HPJBK12	1011467	462	AR215: 5, AR197: 4, AR039: 4, AR309: 4, AR245: 4, AR161: 3, AR162: 3, AR163: 3, AR204: 3, AR165: 3, AR225: 3, AR169: 3, AR264: 3, AR282: 3, AR272: 3, AR089: 3, AR180: 3, AR213: 3, AR172: 3, AR253: 2, AR166: 2, AR212: 2, AR193: 2, AR252: 2, AR271: 2, AR312: 2, AR275: 2, AR164: 2, AR060: 2, AR240: 2, AR216: 2, AR266: 2, AR201: 2, AR205: 2, AR183: 2, AR176: 2, AR195: 2, AR223: 2, AR283: 2, AR277: 1, AR311: 1, AR247: 1, AR313: 1, AR242: 1, AR199: 1, AR299: 1, AR316: 1, AR188: 1, AR104: 1, AR168: 1, AR185: 1, AR291: 1, AR287: 1, AR231: 1, AR294: 1, AR230: 1, AR096: 1 S0152: 2
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	HPJBK12	796925	842	
	HPJBK12	699587	843	
453	HPJCL22	1146674	463	AR313: 19, AR039: 18, AR299: 10, AR300: 10, AR089: 9, AR096: 9, AR277: 8, AR185: 8, AR240: 7, AR316: 7, AR104: 6, AR218: 6, AR060: 5, AR055: 4, AR282: 4, AR219: 4, AR283: 2, H0619: 2, H0484: 1, H0600: 1, H0553: 1, H0056: 1, L0766: 1, L0665: 1, H0693: 1, H0593: 1, S0152: 1, L0754: 1, H0543: 1 and H0423: 1.
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	HPJCL22	1046434	845	
454	HPJCW04	589969	464	AR313: 17, AR165: 14, AR164: 13, AR166: 13, AR162: 13, AR161: 13, AR163: 12, AR196: 12, AR089: 11, AR229: 10, AR235: 10, AR181: 10, AR252: 10, AR236: 10, AR178: 9, AR300: 9, AR299: 9, AR247: 9, AR173: 9, AR213: 9, AR293:

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	HPJEX20	975252	847	
	HPJEX20	894744	848	
	HPJEX20	898220	849	
456	HPMAI22	635491	466	AR277: 10, AR282: 8, AR170: 7, AR283: 7, AR245: 7, AR055: 7, AR192: 7, AR271: 7, AR224: 6, AR240: 6, AR253: 6, AR178: 6, AR207: 6, AR181: 6, AR197: 5, AR176: 5, AR204: 5, AR060: 5, AR089: 5, AR104: 5, AR309: 5, AR183: 5, AR221: 5, AR246: 5, AR180: 4, AR316: 4, AR266: 4, AR255: 4, AR268: 4, AR039: 4, AR162: 4, AR198: 4, AR161: 4, AR163: 4, AR195: 4, AR175: 4, AR215: 4, AR201: 4, AR174: 4, AR218: 4, AR171: 4, AR263: 4, AR223: 4, AR193: 4, AR295: 4, AR243: 4, AR168: 4, AR172: 4, AR264: 4, AR270: 4, AR185: 4, AR269: 4, AR199: 4, AR288: 3, AR242: 3, AR229: 3, AR096: 3, AR261: 3, AR299: 3, AR222: 3, AR290: 3, AR205: 3, AR179: 3, AR182: 3, AR217: 3, AR164: 3, AR291: 3, AR169: 3, AR165: 3, AR267: 3, AR213: 3, AR252: 3, AR300: 3, AR228: 3, AR297: 3, AR189: 3, AR166: 3, AR313: 3, AR272: 3, AR239: 3, AR311: 3, AR285: 3, AR188: 3, AR173: 3, AR233: 3, AR312: 3, AR236: 3, AR293: 3, AR296: 3, AR190: 3, AR191: 3, AR200: 3, AR219: 3, AR257: 3, AR237: 3, AR286: 3, AR212: 3, AR226: 3, AR289: 3, AR214: 3, AR196: 3, AR294: 2, AR250: 2, AR033: 2, AR203: 2, AR231: 2, AR235: 2, AR262: 2, AR232: 2, AR225: 2, AR274: 2, AR061: 2, AR210: 2, AR287: 2, AR216: 2, AR275: 2, AR234: 2, AR230: 2, AR227: 2, AR308: 2, AR053: 2, AR258: 2, AR247: 2, AR256: 1, AR238: 1, AR211: 1, AR260: 1 L0794: 6, H0031: 4, L0779: 3, L0600: 3, L0768: 2, L0805: 2, L0755: 2, L3643: 1, H0713: 1, H0662: 1, L0767: 1, L0657: 1, L0809: 1, L0790: 1, S0052: 1, H0724: 1, H0539: 1, S0406: 1, L0756: 1, S0436: 1 and L0603: 1.
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463	HPTVX32	634353	473	<p>AR309: 2, AR277: 2, AR104: 2, AR039: 2, AR175: 2, AR272: 2, AR288: 2, AR299: 2, AR178: 2, AR263: 2, AR312: 2, AR188: 2, AR291: 2, AR226: 2, AR219: 2, AR297: 2, AR166: 2, AR262: 2, AR296: 2, AR203: 2, AR258: 2, AR177: 2, AR289: 2, AR227: 2, AR311: 1, AR264: 1, AR173: 1, AR222: 1, AR254: 1, AR268: 1, AR260: 1, AR198: 1, AR218: 1, AR232: 1, AR174: 1, AR210: 1, H0424: 3, H0637: 2, H0213: 2, H0265: 1, H0556: 1, L0375: 1 and L0530: 1.</p> <p>AR271: 22, AR061: 18, AR197: 18, AR104: 17, AR199: 16, AR195: 16, AR192: 14, AR033: 14, AR238: 12, AR246: 12, AR226: 12, AR272: 11, AR188: 10, AR239: 10, AR089: 10, AR185: 10, AR253: 9, AR161: 9, AR162: 9, AR196: 9, AR198: 9, AR163: 9, AR245: 9, AR232: 8, AR201: 8, AR177: 8, AR242: 8, AR254: 8, AR164: 8, AR247: 8, AR189: 8, AR165: 7, AR274: 7, AR227: 7, AR237: 7, AR166: 7, AR223: 7, AR215: 7, AR275: 6, AR231: 6, AR207: 6, AR053: 6, AR240: 6, AR039: 6, AR183: 6, AR309: 6, AR277: 6, AR174: 6, AR243: 6, AR316: 6, AR193: 6, AR173: 5, AR217: 5, AR269: 5, AR191: 5, AR228: 5, AR313: 5, AR176: 5, AR308: 5, AR235: 5, AR264: 5, AR212: 5, AR221: 5, AR311: 5, AR263: 5, AR204: 5, AR200: 5, AR216: 5, AR205: 5, AR190: 5, AR234: 5, AR096: 5, AR175: 4, AR060: 4, AR312: 4, AR213: 4, AR169: 4, AR214: 4, AR219: 4, AR250: 4, AR170: 4, AR290: 4, AR224: 4, AR230: 4, AR168: 4, AR178: 4, AR270: 4, AR300: 4, AR218: 4, AR225: 4, AR268: 4, AR233: 4, AR222: 4, AR229: 3, AR210: 3, AR299: 3, AR283: 3, AR291: 3, AR203: 3, AR055: 3, AR180: 3, AR282: 3, AR171: 3, AR295: 3, AR296: 3, AR289: 3, AR287: 3, AR288: 3, AR181: 3, AR267: 3, AR257: 3, AR294: 3, AR261: 3, AR261: 3, AR171: 3, AR295: 3, AR296: 3, AR236: 3, AR172: 3, AR262: 2, AR286: 2, AR285: 2, AR293: 2, AR179: 2, AR297: 2, AR258: 2, AR211: 2, AR256: 1, H0046: 6, L0758: 5, L0803: 4, H0052: 3, H0424: 3, L0794: 3, L0779: 3, H0618: 2, H0135: 2, L0809: 2, L0789: 2, H0690: 2, S3014: 2, L0743: 2, L0751: 2, L0731: 2, H0295: 1, S0001: 1, S0282: 1, H0484: 1, H0306: 1, S0360: 1, S0278: 1, S6022: 1, H0069: 1, H0544: 1, H0457: 1, H0031: 1, H0316: 1, S0002: 1, L0800: 1, L0643: 1, L0764: 1, L0773: 1, L0650: 1, L0774: 1, L0655: 1, L0658: 1, L0659: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0435: 1, H0658: 1, H0670: 1, H0521: 1, S0037: 1, L0748: 1, L0599: 1, L0601: 1 and L0603: 1.</p>
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466	HPWDJ42	722246	476		AR313: 65, AR165: 39, AR164: 38, AR166: 36, AR162: 32, AR161: 32, AR163: 31, AR096: 29, AR089: 29, AR242: 27, AR173: 26, AR300: 25, AR180: 23, AR178: 20, AR229: 20, AR218: 20, AR240: 19, AR247: 19, AR275: 18, AR175: 18, AR179: 18, AR299: 18, AR258: 17, AR193: 17, AR185: 17, AR182: 17, AR238: 17, AR234: 17, AR312: 16, AR183: 16, AR196: 15, AR293: 15, AR270: 15, AR174: 14, AR060: 14, AR262: 14, AR181: 13, AR264: 13, AR219: 13, AR316: 13, AR274: 13, AR233: 12, AR269: 12, AR297: 12, AR268: 12, AR282: 11, AR260: 11, AR230: 11, AR285: 11, AR296: 11, AR226: 11, AR231: 11, AR199: 11, AR177: 10, AR257: 10, AR204: 10, AR191: 10, AR286: 10, AR237: 10, AR287: 10, AR053: 9, AR212: 9, AR203: 9, AR104: 9, AR308: 9, AR176: 9, AR277: 9, AR239: 9, AR294: 9, AR195: 9, AR200: 8, AR245: 8, AR236: 8, AR228: 8, AR266: 8, AR267: 8, AR288: 7, AR295: 7, AR189: 7, AR201: 7, AR227: 7, AR256: 7, AR290: 7, AR188: 7, AR309: 7, AR291: 6, AR250: 6, AR213: 6, AR197: 6, AR255: 6, AR033: 6, AR243: 6, AR261: 6, AR263: 5, AR283: 5, AR254: 5, AR272: 5, AR271: 5, AR211: 5, AR311: 4, AR232: 4, AR190: 4, AR235: 4, AR246: 4, AR289: 3, AR210: 3, AR172: 3, AR217: 3, AR061: 3, AR055: 3, AR221: 3, AR223: 2, AR225: 2, AR214: 2, AR171: 2, AR224: 2, AR205: 1, AR216: 1, AR168: 1, AR253: 1, AR252: 1 S0358: 2 and S0044: 1.
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	HPWDJ42	692213	854		
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481	HSAWD74	460527	491	<p>AR174: 6, AR053: 6, AR233: 6, AR226: 6, AR294: 6, AR283: 5, AR297: 5, AR199: 5, AR225: 5, AR230: 5, AR255: 5, AR177: 5, AR274: 5, AR287: 5, AR275: 5, AR261: 5, AR263: 5, AR270: 5, AR309: 5, AR203: 4, AR183: 4, AR212: 4, AR200: 4, AR176: 4, AR285: 4, AR312: 4, AR231: 4, AR288: 4, AR296: 4, AR286: 4, AR033: 4, AR291: 4, AR228: 4, AR189: 4, AR267: 4, AR266: 3, AR192: 3, AR260: 3, AR239: 3, AR308: 3, AR237: 3, AR213: 3, AR188: 3, AR214: 3, AR290: 3, AR295: 3, AR271: 3, AR272: 3, AR311: 3, AR190: 3, AR227: 2, AR289: 2, AR193: 2, AR221: 2, AR223: 2, AR210: 2, AR232: 2, AR245: 2, AR197: 2, AR205: 2, AR207: 2, AR222: 2, AR256: 2, AR061: 1, AR235: 1, AR224: 1, AR201: 1 S0114: 1</p> <p>AR039: 35, AR313: 32, AR096: 24, AR089: 22, AR299: 17, AR300: 16, AR104: 13, AR185: 13, AR277: 13, AR316: 13, AR060: 13, AR173: 12, AR165: 12, AR166: 12, AR240: 11, AR164: 11, AR218: 11, AR162: 11, AR161: 11, AR163: 10, AR229: 10, AR178: 9, AR242: 9, AR175: 9, AR262: 9, AR247: 9, AR183: 9, AR258: 8, AR275: 8, AR055: 8, AR257: 8, AR180: 7, AR293: 7, AR282: 7, AR181: 7, AR196: 7, AR204: 7, AR312: 7, AR219: 7, AR193: 7, AR191: 6, AR238: 6, AR176: 6, AR198: 6, AR269: 6, AR235: 6, AR199: 6, AR179: 6, AR270: 6, AR233: 6, AR182: 6, AR297: 6, AR234: 6, AR254: 6, AR177: 6, AR296: 6, AR174: 6, AR236: 5, AR203: 5, AR226: 5, AR283: 5, AR266: 5, AR285: 5, AR268: 5, AR245: 5, AR255: 5, AR188: 5, AR309: 5, AR267: 5, AR053: 5, AR287: 5, AR294: 5, AR213: 5, AR274: 5, AR286: 5, AR200: 5, AR231: 4, AR308: 4, AR033: 4, AR288: 4, AR189: 4, AR237: 4, AR260: 4, AR261: 4, AR291: 4, AR201: 4, AR172: 4, AR243: 4, AR295: 4, AR228: 4, AR222: 4, AR227: 4, AR271: 4, AR212: 4, AR264: 4, AR272: 3, AR252: 3, AR169: 3, AR230: 3, AR239: 3, AR205: 3, AR253: 3, AR297: 3, AR197: 3, AR289: 3, AR225: 3, AR207: 3, AR190: 3, AR217: 2, AR214: 2, AR061: 2, AR216: 2, AR256: 2, AR232: 2, AR263: 2, AR195: 2, AR223: 2, AR221: 2, AR246: 2, AR311: 1, AR192: 1, AR168: 1, AR210: 1, AR211: 1 H0068: 3, S0114: 2, L0534: 2, L0740: 2, H0717: 1, S0134: 1, S0442: 1, S0354: 1, S0476: 1, H0333: 1, H0009: 1, H0560: 1, L5565: 1 and H0576: 1.</p>
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	HSKDA27	872570	873	
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	HSQEO84	401251	880	
513	HSSAJ29	630636	523	AR197: 14, AR201: 10, AR269: 9, AR176: 9, AR204: 8, AR161: 8, AR198: 8, AR192: 8, AR162: 8, AR163: 8, AR196: 8, AR236: 7, AR180: 7, AR165: 7, AR242: 7, AR164: 7, AR243: 6, AR207: 6, AR228: 6, AR309: 6, AR166: 6, AR295: 6, AR182: 6, AR235: 6, AR193: 6, AR177: 6, AR183: 6, AR264: 6, AR267: 6, AR233: 6, AR231: 6, AR245: 6, AR178: 6, AR191: 6, AR172: 6, AR266: 5, AR271: 5, AR299: 5, AR229: 5, AR181: 5, AR294: 5, AR223: 5, AR179: 5, AR270: 5, AR055: 5, AR261: 5, AR262: 5, AR291: 5, AR313: 5, AR168: 5, AR246: 5, AR237: 5, AR060: 5, AR240: 5, AR293: 5, AR175: 5, AR171: 5, AR253: 5, AR226: 4, AR089: 4, AR190: 4, AR224: 4, AR268: 4, AR290: 4, AR257: 4, AR247: 4, AR185: 4, AR296: 4, AR297: 4, AR263: 4, AR255: 4, AR275: 4, AR104: 4, AR300: 4, AR189: 4, AR274: 4, AR287: 4, AR174: 4, AR170: 4, AR288: 4, AR203: 4, AR238: 4, AR239: 4, AR216: 4, AR188: 4, AR316: 4, AR217: 4, AR039: 4, AR254: 4, AR215: 4, AR061: 4, AR173: 4, AR312: 3, AR285: 3, AR286: 3, AR200: 3, AR195: 3, AR214: 3, AR282: 3, AR308: 3, AR205: 3, AR033: 3, AR272: 3, AR199: 3, AR096: 3, AR234: 3, AR227: 3, AR250: 3, AR230: 3, AR225: 3, AR283: 3, AR289: 3, AR232: 3, AR311: 3, AR258: 2, AR277: 2, AR222: 2, AR218: 2, AR260: 2, AR221: 2, AR211: 2, AR256: 2, AR212: 2, AR213: 2, AR219: 2, AR210: 2, H0052: 7, H0261: 2, H0135: 2, L0562: 1, S0222: 1, L0438: 1 and L0439: 1.
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	HTOHHM15	848196	915	
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	HTPBW79	396459	918	
582	HTSEW17	460579	592	AR170: 7, AR161: 7, AR162: 7, AR163: 7, AR182: 7, AR225: 6, AR176: 6, AR282: 5, AR228: 5, AR223: 5, AR266: 5,

583	HTTDB46	812763	593	<p>AR180: 5, AR224: 5, AR178: 5, AR269: 5, AR181: 5, AR261: 5, AR309: 5, AR233: 5, AR250: 5, AR191: 5, AR216: 4, AR257: 4, AR231: 4, AR236: 4, AR268: 4, AR274: 4, AR229: 4, AR270: 4, AR214: 4, AR179: 4, AR239: 4, AR165: 4, AR288: 4, AR247: 4, AR263: 4, AR089: 4, AR255: 4, AR237: 4, AR061: 4, AR164: 4, AR287: 3, AR275: 3, AR240: 3, AR177: 3, AR096: 3, AR264: 3, AR174: 3, AR166: 3, AR183: 3, AR234: 3, AR293: 3, AR291: 3, AR295: 3, AR173: 3, AR300: 3, AR168: 3, AR200: 3, AR299: 3, AR190: 3, AR221: 3, AR196: 3, AR296: 3, AR290: 3, AR316: 3, AR294: 3, AR262: 3, AR175: 3, AR297: 3, AR185: 3, AR238: 3, AR313: 3, AR060: 3, AR230: 3, AR055: 3, AR039: 3, AR283: 3, AR286: 3, AR227: 3, AR260: 2, AR172: 2, AR285: 2, AR053: 2, AR308: 2, AR217: 2, AR311: 2, AR188: 2, AR277: 2, AR203: 2, AR226: 2, AR272: 2, AR232: 2, AR192: 2, AR222: 2, AR189: 2, AR201: 2, AR213: 2, AR312: 2, AR258: 2, AR193: 2, AR289: 2, AR171: 2, AR199: 2, AR256: 1, AR219: 1, AR212: 1, AR215: 1, AR211: 1, AR033: 1, AR218: 1, H0087: 1, S0002: 1, L0769: 1, L0789: 1, H0683: 1, H0670: 1, L0748: 1, L0749: 1, L0752: 1 and L0758: 1.</p> <p>AR197: 5, AR161: 4, AR181: 4, AR215: 4, AR163: 4, AR162: 4, AR165: 4, AR272: 4, AR164: 3, AR282: 3, AR176: 3, AR264: 3, AR166: 3, AR180: 3, AR178: 3, AR311: 3, AR192: 3, AR263: 3, AR236: 3, AR174: 3, AR261: 3, AR195: 3, AR207: 3, AR288: 3, AR228: 3, AR222: 3, AR299: 3, AR193: 3, AR201: 3, AR309: 3, AR257: 3, AR212: 2, AR221: 2, AR205: 2, AR224: 2, AR053: 2, AR271: 2, AR275: 2, AR204: 2, AR239: 2, AR308: 2, AR291: 2, AR235: 2, AR214: 2, AR173: 2, AR190: 2, AR287: 2, AR177: 2, AR196: 2, AR216: 2, AR191: 2, AR225: 2, AR266: 2, AR169: 2, AR262: 2, AR245: 2, AR232: 2, AR289: 2, AR249: 2, AR269: 2, AR185: 2, AR268: 2, AR285: 2, AR229: 2, AR226: 2, AR238: 2, AR237: 2, AR183: 2, AR179: 2, AR247: 2, AR255: 2, AR188: 2, AR313: 2, AR312: 2, AR233: 2, AR295: 2, AR270: 2, AR189: 2, AR253: 2, AR175: 2, AR294: 2, AR060: 2, AR231: 2, AR089: 2, AR296: 2, AR246: 2, AR213: 2, AR297: 2, AR168: 2, AR234: 2, AR198: 2, AR223: 2, AR273: 2, AR267: 2, AR293: 1, AR039: 1, AR227: 1, AR274: 1, AR217: 1, AR277: 1, AR240: 1, AR203: 1, AR290: 1, AR316: 1, AR061: 1, AR286: 1, AR300: 1, AR242: 1, AR230: 1, AR200: 1, AR182: 1, AR171: 1, AR243: 1, AR310: 1, AR033: 1, AR096: 1, AR258: 1, S0408: 4, H0036: 3, S0444: 2, S0360: 1, H0038: 1 and H0040: 1.</p>
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594	HUFEF62	645101	604	AR207: 39, AR214: 22, AR222: 21, AR195: 21, AR223: 20, AR235: 20, AR169: 19, AR198: 19, AR224: 19, AR172: 18, AR213: 18, AR192: 17, AR170: 17, AR263: 17, AR217: 17, AR212: 16, AR205: 16, AR168: 16, AR171: 16, AR216: 16, AR089: 15, AR225: 14, AR053: 14, AR221: 14, AR295: 14, AR261: 14, AR311: 14, AR245: 14, AR264: 14, AR308: 13, AR165: 13, AR242: 13, AR197: 13, AR309: 13, AR215: 13, AR196: 12, AR166: 12, AR164: 12, AR039: 12, AR246: 11, AR161: 11, AR177: 11, AR236: 11, AR162: 11, AR201: 11, AR193: 10, AR297: 10, AR288: 10, AR312: 10, AR163: 10, AR240: 10, AR316: 10, AR181: 10, AR271: 9, AR204: 9, AR285: 9, AR210: 9, AR060: 9, AR033: 9, AR277: 9, AR282: 9, AR230: 9, AR299: 9, AR275: 8, AR313: 8, AR286: 8, AR174: 8, AR252: 8, AR296: 8, AR254: 8, AR188: 8, AR183: 8, AR253: 8, AR218: 8, AR243: 7, AR291: 7, AR096: 7, AR283: 7, AR104: 7, AR211: 7, AR274: 7, AR300: 7, AR189: 7, AR173: 7, AR200: 7, AR175: 7, AR055: 7, AR258: 7, AR185: 7, AR247: 7, AR272: 7, AR238: 6, AR293: 6, AR191: 6, AR199: 6, AR234: 6, AR287: 6, AR231: 6, AR229: 6, AR262: 6, AR178: 6, AR257: 6, AR250: 6, AR179: 5, AR219: 5, AR176: 5, AR226: 5, AR239: 5, AR268: 5, AR228: 5, AR203: 5, AR289: 5, AR255: 5, AR227: 5, AR266: 5, AR190: 5, AR237: 5, AR233: 5, AR260: 5, AR256: 5, AR232: 5, AR294: 5, AR182: 5, AR270: 5, AR061: 4, AR180: 4, AR269: 4, AR267: 4, AR290: 4, H0506: 1
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	HWAAD63	793875		932
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	HWHHL34	341560	944	
617	HWLEV32	1032602	627	<p>AR039: 14, AR313: 12, AR096: 8, AR089: 7, AR299: 7, AR185: 5, AR277: 5, AR282: 5, AR316: 4, AR300: 4, AR104: 4, AR198: 4, AR182: 3, AR060: 3, AR240: 3, AR246: 3, AR178: 3, AR215: 3, AR225: 3, AR263: 2, AR216: 2, AR218: 2,</p>

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	HWLEV32	881710	946	
	HWLEV32	846351	947	
618	HWLIH65	793713	628	AR061: 97, AR231: 60, AR238: 60, AR237: 58, AR234: 57, AR202: 53, AR194: 53, AR281: 48, AR226: 44, AR315: 42, AR206: 39, AR280: 38, AR244: 37, AR227: 35, AR241: 31, AR229: 31, AR314: 30, AR248: 26, AR232: 25, AR284: 23, AR283: 22, AR265: 22, AR266: 21, AR310: 20, AR263: 19, AR292: 19, AR033: 18, AR298: 17, AR184: 17, AR192: 17, AR246: 17, AR243: 17, AR096: 17, AR233: 15, AR295: 15, AR177: 15, AR282: 15, AR198: 13, AR186: 13, AR267: 13, AR299: 13, AR273: 12, AR316: 12, AR104: 12, AR296: 12, AR251: 12, AR291: 12, AR249: 12, AR247: 12, AR219: 12, AR300: 12, AR313: 12, AR277: 12, AR285: 11, AR289: 11, AR205: 11, AR039: 11, AR213: 11, AR052: 11, AR240: 10, AR218: 10, AR259: 10, AR286: 10, AR268: 10, AR269: 10, AR204: 10, AR055: 9, AR182: 9, AR270: 9, AR253: 9, AR175: 8, AR183: 8, AR309: 8, AR053: 8, AR312: 8, AR271: 8, AR089: 7, AR275: 7, AR294: 7, AR185: 7, AR256: 7, AR290: 7, AR274: 7, AR293: 6, AR258: 6, AR060: 5, AR179: 4, AR165: 3, AR161: 3, AR162: 3, AR264: 3, AR163: 3, AR195: 3, AR164: 3, AR166: 3, AR308: 3, AR215: 3, AR212: 3, AR221: 3, AR272: 3, AR214: 2, AR199: 2, AR223: 2, AR201: 2, AR176: 2, AR224: 2, AR217: 1, AR210: 1, AR172: 1, AR311: 1, AR257: 1, AR171: 1, AR297: 1, AR196: 1, AR245: 1, AR189: 1, L0774: 3, H0521: 3, L0777: 3, S0356: 2, S0408: 2, H0124: 2, H0494: 2, L0766: 2, L0666: 2, L0751: 2, L0596: 2, S0040: 1, H0294: 1, S0430: 1, H0656: 1, S0358: 1, S0360: 1, H0729: 1, H0645: 1, H0586: 1, H0587: 1, H0632: 1, H0590: 1, L0045: 1, S0003: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, L0564: 1, H0560: 1, H0509: 1, H0641: 1, S0002: 1, L0640: 1, L0662: 1, L0775: 1, L0655: 1, L0659: 1, L0783: 1, L5622: 1, L0663: 1, L2653: 1, H0701: 1, H0689: 1, H0672: 1, H0539: 1, S0406: 1, L0439: 1, L0749: 1, L0786: 1, S0434: 1, S0436: 1, H0543: 1, S0424: 1 and S0446: 1.
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620	HYAAJ71	826754	630	AR104: 1, AR096: 1, AR204: 1, AR294: 1, AR258: 1, AR246: 1, AR300: 1, AR250: 1, AR199: 1, AR033: 1 L0439: 4, L0748: 2, H0351: 1, S0364: 1, L0768: 1, L0650: 1, L0375: 1, L0747: 1 and H0352: 1.
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Table 1C summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID:), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID:", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

Table 1C

cDNA Clone ID	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAGAN21	21	1026956	AC011967	1885	1-839
HAGAN21	21	1026956	AC074370	1886	1-839
HAGAN21	21	1026956	AL355151	1887	1-837
HAGAN21	21	1026956	AL121796	1888	1-836
HAGAN21	21	1026956	AC011967	1889	1-367 372-1167 1180-1791 3777-4078 4113-4269
HAGAN21	21	1026956	AC074370	1890	1-366 373-1167 1180-1793 3779-4081 4117-4273
HAGAN21	21	1026956	AL355151	1891	1-364 373-1166 1179-1790 3780-4082
HAGAN21	21	1026956	AL121796	1892	1-367 374-1165 1178-1791 3767-4069 4105-4262
HAIBP89	31	727543	AC005214	1893	1-228 817-3471
HAIBP89	31	727543	AC005214	1894	1-539

HBCPB32	56	1352403	AC024191	1895	1-643 1421-1636 4917-5536
HBCQL32	57	1134954	AC069250	1896	1-461 504-1011 1964-2424 2747-2859 3098-3251 4239-6717
HBCQL32	57	1134954	AC069250	1897	1-418
HBINS58	62	1352386	AL096774	1898	1-1023 2010-2239 2581-2962 3153-3223 3324-3493 3973-4126
HBINS58	62	1352386	AL096774	1899	1-341
HBINS58	62	1352386	AL096774	1900	1-142
HBMCI50	69	668268	AL139132	1901	1-890
HBMCI50	69	668268	AL359179	1902	1-891
HBMCI50	69	668268	AL139132	1903	1-155
HBMCI50	69	668268	AL359179	1904	1-155
HBOEG11	71	1300752	AL139352	1905	1-253 438-539 2336-2801 4986-5209 5967-6439 9014-9452 9829-10084 10404-10503 12165-13255
HBOEG11	71	1300752	AL139352	1906	1-559
HCEFB80	79	1143407	AL022327	1907	1-2271 3506-3658 4643-4810 9039-9164 9382-9509 10587-10720 11135-11195 11265-11716 14644-15466 17451-17526 18012-18114 20530-20632 20957-21009 23696-23785 25338-25575 25969-26166
HCEWE17	83	941941	AL139130	1908	1-170 463-598 623-1346 1404-1523 2059-2159 2350-2616

					3068-3254 3428-3878
HCOOS80	96	1134974	AC003688	1909	1-718 1054-1158 1660-1980 4003-4073 4364-4516 4646-4749 4852-4995 5121-5213 5354-5424 5526-5669 5759-5832 5850-6176 6756-6829 7023-7175 7259-7398 7531-7711 8134-8381 8463-13585 13691-14323 14437-14918
HCOOS80	96	1134974	AC026954	1910	1-138 273-453 876-1123 1205-4456
HCOOS80	96	1134974	AC003688	1911	1-125 203-480 1463-1647 2048-2077 2229-2323 2725-3784 3867-4682
HCWGU37	103	1042325	AC007459	1912	1-242
HCWGU37	103	1042325	AC022435	1913	1-218 5587-5754
HCWGU37	103	1042325	AC022051	1914	1-294
HCWGU37	103	1042325	AC023672	1915	1-196
HCWGU37	103	1042325	AC011101	1916	1-100
HCWGU37	103	1042325	AC034243	1917	1-312 2334-2364
HCWGU37	103	1042325	AC010454	1918	1-218 5588-5755
HCWGU37	103	1042325	AC026144	1919	1-183
HCWGU37	103	1042325	AC009691	1920	1-292
HCWGU37	103	1042325	AL354696	1921	1-181
HCWGU37	103	1042325	AC073219	1922	1-123
HCWGU37	103	1042325	AC027414	1923	1-270
HCWGU37	103	1042325	AC010454	1924	1-303
HDPWN93	140	992925	AC004590	1925	1-276 489-591 866-988 1106-1281 1323-1444

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HDPWN93	140	992925	AC021491	1926	1-275 488-590 865-987 1105-1280 1322-1443 1631-1798 1865-2015 2108-2312 2633-3204 3359-3471 3527-3743 3819-5005 6579-6918 7075-7275 8054-8150 8315-8677
HDPWN93	140	992925	AC004590	1927	1-303 727-1252 5721-5846
HDPWN93	140	992925	AC021491	1928	1-303 727-1253 5723-5848
HDTEK44	146	1025421	AC022100	1929	1-2932
HDTEK44	146	1025421	AC022100	1930	1-353
HDTFE17	148	1043391	AF196972	1931	1-74 391-524 1481-1536 1623-1699 2092-2448 2537-2611 3085-3179 3315-3395 6429-6514 6997-7407 7611-7693 8316-8774 9534-9680 9770-9875 10373-10876
HDTFE17	148	1043391	AF196972	1932	1-742
HDTMK50	151	1011485	AL354768	1933	1-1340
HDTMK50	151	1011485	AC012318	1934	1-147
HDTMK50	151	1011485	AL354768	1935	1-590

HE8QV67	162	1050076	AL133410	1936	1-765 4403-4496 4696-4813 5112-5584 5780-5830 5850-7766 7774-8284 8479-8902 8986-9110 9305-9481 9658-9944 9998-10106 10202-12718 12797-12886 12974-13063 13259-14645 14680-14941 15625-15714 15825-15895 15965-16114 16204-16772
HE8QV67	162	1050076	AL133410	1937	1-85 1082-1951 2761-3118
HE8QV67	162	1050076	AL133410	1938	1-26 28-267 828-3952 4173-4837 4930-6955 7105-7230 7451-7655 7842-7947 8245-8329 8599-8756 8855-8940 9219-9356 9728-9861 10190-10231
HEBBN36	172	486120	AC005180	1939	1-341 704-1559 1704-3089 3146-4166 4768-4871 5384-5485 5535-6182 6595-7328
HEBBN36	172	486120	AC002557	1940	1-1387
HEBBN36	172	486120	AC002557	1941	1-856
HEBBN36	172	486120	AC002557	1942	1-971
HETLM70	193	1177512	AC012314	1943	1-43 861-1031 1576-1743 1924-2132 2203-2432

					2473-2905 3177-3360 3651-4332 4422-4583 4830-4995 5086-5365
HETLM70	193	1177512	AC009968	1944	1-43 857-1027 1570-1737 1918-2126 2197-2426 2467-2899 3171-3354 3644-4326 4416-4577 4824-4989 5080-5360
HETLM70	193	1177512	AC012314	1945	1-181 1281-1463 2719-2983 3158-3411 3804-6347 6745-6879 7118-7319 7420-7521 7859-8305 8552-8602 9988-10334 10415-10778 11003-11127 11210-11303 11334-11832 13093-13145 13703-13837 13918-14152 15415-15511 15613-15742 15998-16087 16231-16307 16447-17211 18520-18796 21777-22001
HETLM70	193	1177512	AC009968	1946	1-180 1275-1457 2712-2976 3150-3403 3796-6332 6730-6864 7103-7303 7404-7505 7843-8289 8536-8586 9970-10312 10393-10756 10981-11105

					11188-11805 13068-13120 13678-13812 13905-13994
HFIIZ70	202	1043350	AC005005	1947	1-368 1579-2971
HFIIZ70	202	1043350	AC005005	1948	1-484 517-1142 2842-3176 3376-3493 3575-3740 3873-4227 4728-4935 5074-5351 5446-5564 5772-5960 7287-7627 7721-8097 8218-9325 12098-12161 12780-13266 13482-13666 13748-13817 14445-14519 14595-14928 15658-15754 15848-15923 16016-16112 16512-16660 21313-21448 21710-21870 21899-22470 22634-22787 23169-23307
HFVGE32	215	854545	AL160269	1949	1-1122
HFVGE32	215	854545	AL138754	1950	1-1120
HHBCS39	232	1003028	AL390960	1951	1-2979
HHBCS39	232	1003028	AL358992	1952	1-2983
HHBCS39	232	1003028	AL358992	1953	1-207
HHEPD24	238	498227	AC025937	1954	1-216
HHGCM76	250	662329	AC003665	1955	1-70 304-609 900-1090 1240-1835 2272-2490 2581-3598
HHGCM76	250	662329	AC003665	1956	1-580 851-995 1224-1296 1314-1663 1930-1975 2724-2905 2968-3098 3283-3328

					5121-5230 5331-5689
HJACG30	260	895505	AC018512	1957	1-776
HJACG30	260	895505	AC022305	1958	1-878
HJACG30	260	895505	AC002518	1959	1-150
HKACM93	277	1352383	AL158848	1960	1-431 4227-4418 6907-7028 12393-12788 13026-13171 14505-14634 14659-14701 15118-15405 16371-16568 17704-17888 18408-18580 18868-19021 19843-20023 21731-21911 23724-25211
HKACM93	277	1352383	AL158848	1961	1-2833 2990-3408 3932-5958 5960-6045 6428-6501
HKGAT94	283	762811	AC025388	1962	1-1040 1047-2356 2415-3968
HKGAT94	283	762811	AL109945	1963	1-1040 1047-2356 2415-3968
HKGAT94	283	762811	AC022307	1964	1-1040 1047-2356 2415-3968
HKGAT94	283	762811	AC025388	1965	1-506
HKGAT94	283	762811	AL109945	1966	1-506
HKGAT94	283	762811	AL109945	1967	1-456
HKGAT94	283	762811	AC022307	1968	1-479
HKGAT94	283	762811	AC022307	1969	1-506
HLHFR58	305	919888	AC020749	1970	1-1006
HLHFR58	305	919888	AC020749	1971	1-336
HNGBC07	372	1037631	AL022339	1972	1-1583
HNGIH43	380	410179	AC018980	1973	1-83 3147-4045 4401-4443
HNGIH43	380	410179	AC018977	1974	1-604
HNGIH43	380	410179	AL356243	1975	1-83 3146-4044 4400-4442
HNGIH43	380	410179	AC018980	1976	1-872
HNTSY18	409	1041383	AC004877	1977	1-175 342-474 573-1883 2536-2632

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HNTSY18	409	1041383	AC004877	1978	1-42 1197-1333 1575-1698 1936-1984 2246-2304
HOEDE28	424	1036480	AC058820	1979	1-150 412-580 1115-1724 1821-2461 2640-4410
HOEDE28	424	1036480	AC058820	1980	1-533 676-947 959-1251
HOHBY44	441	873264	AC074201	1981	1-5280 5527-5989 7392-7421
HOHBY44	441	873264	AC074201	1982	1-298
HPDWP28	454	1094609	AP000067	1983	1-818 981-1337 1583-1823 2236-2371
HPDWP28	454	1094609	AP000067	1984	1-129
HPICB53	461	1042309	AC002351	1985	1-82 959-2236
HPICB53	461	1042309	AC020997	1986	1-1329
HPICB53	461	1042309	AC002351	1987	1-115
HPICB53	461	1042309	AC020997	1988	1-201 1064-1126 1665-2153 2308-3502
HPJBK12	462	1011467	AC022033	1989	1-2649
HPJBK12	462	1011467	AC013541	1990	1-2649
HPJBK12	462	1011467	AC022033	1991	1-190
HPJBK12	462	1011467	AC013541	1992	1-190
HPJCL22	463	1146674	AC037447	1993	1-102 373-826 995-1315 1450-1567 2189-2515 2599-2778 3138-4132 4537-4681 4864-4998 5144-5324 5394-6211 6816-6941 7472-7647 7791-8885 9056-9368

					9506-9733 9799-10100 10277-10988 11213-11751 11783-11838 11875-12474 12592-13077
HPJCL22	463	1146674	AC022400	1994	1-102 373-826 995-1315 1450-1567 2189-2515 2599-2778 3138-4132 4537-4681 4864-4998 5144-5324 5394-6211 6816-6941 7472-7647 7791-8885 9056-9368 9506-9733 9799-10100 10277-10988 11213-11751 11783-11837 11874-12473 12591-13076
HPJCL22	463	1146674	AC037447	1995	1-207
HPJCL22	463	1146674	AC037447	1996	1-2124
HPJCL22	463	1146674	AC022400	1997	1-207
HPJCL22	463	1146674	AC022400	1998	1-2124 2470-2567 2865-2971
HPJEX20	465	1352420	AL080251	1999	1-1821
HPJEX20	465	1352420	AL139283	2000	1-1821
HPJEX20	465	1352420	AL080251	2001	1-313
HPJEX20	465	1352420	AL139283	2002	1-313
HPWAY46	475	1001560	AC019036	2003	1-1399
HPWAY46	475	1001560	AC067828	2004	1-1399
HPWAY46	475	1001560	AC019036	2005	1-788
HPWAY46	475	1001560	AC067828	2006	1-788
HSAUK57	487	772554	AC008860	2007	1-1344
HSAUK57	487	772554	AC025444	2008	1-1344
HSAUK57	487	772554	AC008860	2009	1-340
HSAUK57	487	772554	AC025444	2010	1-340
HSAWD74	491	460527	AC004951	2011	1-1651 1740-2593
HSAWD74	491	460527	AC004951	2012	1-149
HSAWD74	491	460527	AC004951	2013	1-5057 5082-8353 8404-8996
HSDJL42	503	1036471	AC008676	2014	1-56

					571-2959
HSLJG37	519	1016920	AC022608	2015	1-2406
HSLJG37	519	1016920	AC022608	2016	1-53 430-718
HSLJG37	519	1016920	AC022608	2017	1-351
HSODE04	520	906081	Z99289	2018	1-1365
HSXEQ06	535	1016924	AL390254	2019	1-159 3226-4594 5783-7254 7340-7720 8172-13712
HSXEQ06	535	1016924	AL356017	2020	1-73 505-680 1625-2403 5814-5972 9035-10403 11592-13063 13149-13529 13981-19521
HSXEQ06	535	1016924	AL390254	2021	1-126
HSXEQ06	535	1016924	AL356017	2022	1-126
HSXEQ06	535	1016924	AL356017	2023	1-42 674-828 3271-3406 4251-4326 5040-5180 7884-8230 8404-8621 8735-8892 10277-10417
HSYAZ50	539	1027673	AC007378	2024	1-2471
HSYAZ50	539	1027673	AC073041	2025	1-2471
HSYAZ50	539	1027673	AC007378	2026	1-467
HSYAZ50	539	1027673	AC073041	2027	1-467
HTHBG43	565	919911	AL139257	2028	1-36 130-201 330-753 1823-2214 2331-2440 2728-2834 2920-3028 3370-3514 4153-5236 5877-6744 6813-7124 8441-9280 9527-9953 10394-10536 10945-11362 11763-11843 12653-12953 13970-14183 14223-14726 15929-16299

					16328-16751 17791-18093 18095-18712 18754-24628 24879-25426
HTHBG43	565	919911	AL139257	2029	1-286
HTHCA18	566	908144	AP002439	2030	1-1800
HTHCA18	566	908144	AP002505	2031	1-1776
HTHCA18	566	908144	AP002439	2032	1-110
HTHCA18	566	908144	AP002505	2033	1-110
HTJML75	570	1040047	AC025036	2034	1-148
HTJML75	570	1040047	AC022232	2035	1-152
HTJML75	570	1040047	AC022231	2036	1-151
HTJML75	570	1040047	AC010694	2037	1-202
HTJML75	570	1040047	AC027300	2038	1-158
HTJML75	570	1040047	AC011953	2039	1-126
HTJML75	570	1040047	AC010694	2040	1-77
HTLIV19	579	1046341	AC055750	2041	1-964
HTLIV19	579	1046341	AC027463	2042	1-964
HTLIV19	579	1046341	AC055750	2043	1-236
HTLIV19	579	1046341	AC027463	2044	1-236
HTOIZ02	588	826312	AC023146	2045	1-2101 3106-3722
HTOIZ02	588	826312	AC023146	2046	1-278
HVARW53	609	1194812	AC011298	2047	1-648 1184-3022 3943-4047 5961-6504
HVARW53	609	1194812	AC011298	2048	1-397

Tables 1D: The polynucleotides or polypeptides, or agonists or antagonists of the present invention can be used in assays to test for one or more biological activities. If these polynucleotides and polypeptides do exhibit activity in a particular assay, it is likely that these molecules may be involved in the diseases associated with the biological activity. Thus, the polynucleotides or polypeptides, or agonists or antagonists could be used to treat the associated disease.

The present invention encompasses methods of detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating a disease or disorder. In preferred embodiments, the present invention encompasses a method of treating cancer and other hyperproliferative disorders comprising administering to a patient in which such detection, treatment, prevention, and/or amelioration is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) in an amount effective to detect, prevent, diagnose, prognosticate, treat, and/or ameliorate the cancer and other hyperproliferative disorders.

In another embodiment, the present invention also encompasses methods of detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating cancer and other

hyperproliferative disorders; comprising administering to a patient combinations of the proteins, nucleic acids, or antibodies of the invention (or fragments or variants thereof), sharing similar indications as shown in the corresponding rows in Column 3 of Table 1D.

Table 1D provides information related to biological activities for polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof). Table 1D also provides information related to assays which may be used to test polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof) for the corresponding biological activities. The first column ("Gene No.") provides the gene number in the application for each clone identifier. The second column ("cDNA Clone ID:") provides the unique clone identifier for each clone as previously described and indicated in Table 1A through Table 1D. The third column ("AA SEQ ID NO:Y") indicates the Sequence Listing SEQ ID Number for polypeptide sequences encoded by the corresponding cDNA clones (also as indicated in Tables 1A, Table 1B, and Table 2). The fourth column ("Biological Activity") indicates a biological activity corresponding to the indicated polypeptides (or polynucleotides encoding said polypeptides). The fifth column ("Exemplary Activity Assay") further describes the corresponding biological activity and also provides information pertaining to the various types of assays which may be performed to test, demonstrate, or quantify the corresponding biological activity.

Table 1D describes the use of, inter alia, FMAT technology for testing or demonstrating various biological activities. Fluorometric microvolume assay technology (FMAT) is a fluorescence-based system which provides a means to perform nonradioactive cell- and bead-based assays to detect activation of cell signal transduction pathways. This technology was designed specifically for ligand binding and immunological assays. Using this technology, fluorescent cells or beads at the bottom of the well are detected as localized areas of concentrated fluorescence using a data processing system. Unbound fluorphore comprising the background signal is ignored, allowing for a wide variety of homogeneous assays. FMAT technology may be used for peptide ligand binding assays, immunofluorescence, apoptosis, cytotoxicity, and bead-based immunocapture assays. *See, Miraglia S et. al., "Homogeneous cell and bead based assays for highthroughput screening using flourometric microvolume assay technology," Journal of Biomolecular Screening; 4:193-204 (1999).* In particular, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides (including polypeptide fragments and variants) to activate signal transduction pathways. For example, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides to upregulate production of immunomodulatory proteins (such as, for example, interleukins, GM-CSF, Rantes, and Tumor Necrosis factors, as well as other cellular regulators (e.g. insulin)).

Table 1D also describes the use of kinase assays for testing, demonstrating, or quantifying biological activity. In this regard, the phosphorylation and de-phosphorylation of specific amino acid residues (e.g. Tyrosine, Serine, Threonine) on cell-signal transduction proteins provides a fast, reversible means for activation and de-activation of cellular signal transduction pathways. Moreover, cell signal transduction via phosphorylation/de-phosphorylation is crucial to the regulation of a wide variety of cellular processes (e.g. proliferation, differentiation, migration, apoptosis, etc.). Accordingly, kinase assays provide a powerful tool useful for testing, confirming, and/or identifying polypeptides (including polypeptide fragments and variants) that mediate cell signal transduction events via protein phosphorylation. See e.g., Forrer, P., Tamaskovic R., and Jaussi, R. "Enzyme-Linked Immunosorbent Assay for Measurement of JNK, ERK, and p38 Kinase Activities" *Biol. Chem.* 379(8-9): 1101-1110 (1998).

Table 1D

Gene No.	cDNA Clone ID	AA SEQ ID NO: Y	Biological Activity	Exemplary Activity Assay	Preferred Indication
1	H2CBG48	949	Activation of transcription through cAMP response element (CRE) in pre-adipocytes.	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP, regulate CREB transcription factors, and modulate expression of genes involved in a wide variety of cell functions. For example, a 3T3-L1/CRE reporter assay may be used to identify factors that activate the cAMP signaling pathway. CREB plays a major role in adipogenesis, and is involved in differentiation into adipocytes. CRE contains the binding sequence for the transcription factor CREB (CRE binding protein). Exemplary assays for transcription through the	A highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. An additional highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-

				<p>cAMP response element that may be used or routinely modified to test cAMP-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Reusch et al., Mol Cell Biol 20(3):1008-1020 (2000); and Klemm et al., J Biol Chem 273:917-923 (1998), the contents of each of which are herein incorporated by reference in its entirety. Pre-adipocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary mouse adipocyte cells that may be used according to these assays include 3T3-L1 cells. 3T3-L1 is an adherent mouse</p>	<p>hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). Additional highly preferred indications are complications associated with insulin resistance.</p>
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1	H2CBG48	949	Activation of transcription through AP1 response element in immune cells (such as T-cells).	<p>preadipocyte cell line that is a continuous substrain of 3T3 fibroblast cells developed through clonal isolation and undergo a pre-adipocyte to adipose-like conversion under appropriate differentiation conditions known in the art.</p> <p>Assays for the activation of transcription through the AP1 response element are known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate growth and other cell functions. Exemplary assays for transcription through the AP1 response element that may be used or routinely modified to test AP1-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1988); Cullen and Malm, Methods in Enzymol</p>	<p>include neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity", "Cardiovascular Disorders", and/or "Blood-Related Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional highly preferred indications include inflammation and</p>
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				<p>216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Rellahan et al., J Biol Chem 272(49):30806-30811 (1997); Chang et al., Mol Cell Biol 18(9):4986-4993 (1998); and Fraser et al., Eur J Immunol 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety.</p> <p>Mouse T cells that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary mouse T cells that may be used according to these assays include the HT2 cell line, which is an IL-2 dependent suspension culture cell line that also responds to IL-4.</p>	<p>inflammatory disorders. Highly preferred indications also include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under “Hyperproliferative Disorders”). Highly preferred indications include neoplasms and cancers, such as, leukemia, lymphoma, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include arthritis, asthma, AIDS, allergy, anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin’s disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt’s lymphoma, granulomatous disease, inflammatory bowel disease, sepsis, psoriasis, suppression</p>
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1	H2CBG48	949	Activation of transcription through cAMP response element in immune cells (such as T-cells).	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP, regulate CREB transcription factors, and modulate expression of genes involved in a wide variety of cell functions. Exemplary assays for transcription through the cAMP response element that may be used or routinely modified to test cAMP-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol	of immune reactions to transplanted organs and tissues, endocarditis, meningitis, and Lyme Disease. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional preferred indications include inflammation and inflammatory disorders. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma,
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			<p>216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Black et al., Virus Genes 15(2):105-117 (1997); and Belkowski et al., J Immunol 161(2):659-665 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the HT2 cell line, which is a suspension culture of IL-2 dependent T cells that also respond to IL-4.</p>	<p>and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma (e.g., T cell lymphoma, Burkitt's lymphoma, non-Hodgkins lymphoma, Hodgkin's disease), melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune</p>
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					reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and asthma and allergy.
2	H2MAC30	950	Activation of transcription through serum response element in immune cells (such as T-cells).	Assays for the activation of transcription through the Serum Response Element (SRE) are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate the serum response factors and modulate the expression of genes involved in growth. Exemplary assays for transcription through the SRE that may be used or routinely modified to test SRE activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-	A preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) TNF alpha production. An alternative preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated

				<p>368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is an IL-2 dependent suspension culture of T cells with cytotoxic activity.</p>	<p>immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia,</p>
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					metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, cardiac reperfusion injury, and asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").
2	H2MAC30	950	Activation of JNK Signaling Pathway in immune cells (such as eosinophils).	Kinase assay. JNK kinase assays for signal transduction that regulate cell proliferation, activation, or apoptosis are well known in the art and may be used or routinely modified to assess the ability of	Highly preferred indications include asthma, allergy, hypersensitivity reactions, inflammation, and inflammatory disorders. Additional highly preferred indications include immune

				<p>polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to promote or inhibit cell proliferation, activation, and apoptosis. Exemplary assays for JNK kinase activity that may be used or routinely modified to test JNK kinase-induced activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include the assays disclosed in Forrer et al., Biol Chem 379(8-9):1101-1110 (1998); Gupta et al., Exp Cell Res 247(2): 495-504 (1999); Kyriakis JM, Biochem Soc Symp 64:29-48 (1999); Chang and Karin, Nature 410(6824):37-40 (2001); and Cobb MH, Prog Biophys Mol Biol 71(3-4):479-500 (1999); the contents of each of which are herein incorporated by reference in its entirety. Exemplary cells that may be used according to these assays include eosinophils. Eosinophils are important in</p>	<p>and hematopoietic disorders (e.g., as described below under "Immune Activity", and "Blood-Related Disorders"), autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below). Highly preferred indications also include boosting or inhibiting immune cell proliferation. Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include boosting an eosinophil-mediated immune response, and suppressing an eosinophil-mediated immune response.</p>
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				<p>the late stage of allergic reactions; they are recruited to tissues and mediate the inflammatory response of late stage allergic reaction. Moreover, exemplary assays that may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate signal transduction, cell proliferation, activation, or apoptosis in eosinophils include assays disclosed and/or cited in: Zhang JP, et al., "Role of caspases in dexamethasone-induced apoptosis and activation of c-Jun NH2-terminal kinase and p38 mitogen-activated protein kinase in human eosinophils" Clin Exp Immunol; Oct;122(1):20-7 (2000); Hebestreit H, et al., "Disruption of fas receptor signaling by nitric oxide in eosinophils" J Exp Med; Feb 2;187(3):415-25 (1998); J Allergy Clin Immunol 1999</p>	
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				Sep;104(3 Pt 1):565-74; and, Sousa AR, et al., "In vivo resistance to corticosteroids in bronchial asthma is associated with enhanced phosphorylation of JUN N-terminal kinase and failure of prednisolone to inhibit JUN N-terminal kinase phosphorylation" J Allergy Clin Immunol; Sep;104(3 Pt 1):565-74 (1999); the contents of each of which are herein incorporated by reference in its entirety.	
3	H6EAB28	951	Production of TNF alpha by dendritic cells	TNFα FMA T. Assays for immunomodulatory proteins produced by activated macrophages, T cells, fibroblasts, smooth muscle, and other cell types that exert a wide variety of inflammatory and cytotoxic effects on a variety of cells are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to mediate immunomodulation,	A highly preferred embodiment of the invention includes a method for inhibiting (e.g., decreasing) TNF alpha production. An alternative highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"),

				<p>modulate inflammation and cytotoxicity. Exemplary assays that test for immunomodulatory proteins evaluate the production of cytokines such as tumor necrosis factor alpha (TNFa), and the induction or inhibition of an inflammatory or cytotoxic response. Such assays that may be used or routinely modified to test immunomodulatory activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Miraglia et al., J Biomolecular Screening 4:193-204(1999); Rowland et al., "Lymphocytes: a practical approach" Chapter 6:138-160 (2000); Verhasselt et al., Eur J Immunol 28(11):3886-3890 (1998); Dahlen et al., J Immunol 160(7):3585-3593 (1998); Verhasselt et al., J Immunol 158:2919-2925 (1997); and Nardelli et al., J Leukoc Biol 65:822-828 (1999), the contents of each of</p>	<p>Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast,</p>
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				<p>which are herein incorporated by reference in its entirety. Human dendritic cells that may be used according to these assays may be isolated using techniques disclosed herein or otherwise known in the art. Human dendritic cells are antigen presenting cells in suspension culture, which, when activated by antigen and/or cytokines, initiate and upregulate T cell proliferation and functional activities.</p>	<p>lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, cardiac reperfusion injury, and asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below</p>
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3	H6EAB28	951	<p>Activation of transcription through GATA-3 response element in immune cells (such as mast cells).</p>	<p>This reporter assay measures activation of the GATA-3 signaling pathway in HMC-1 human mast cell line.</p> <p>Activation of GATA-3 in mast cells has been linked to cytokine and chemokine production. Assays for the activation of transcription through the GATA3 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate GATA3 transcription factors and modulate expression of mast cell genes important for immune response development. Exemplary assays for transcription through the GATA3 response element that may be used or routinely modified to test GATA3-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of</p>	<p>under "Infectious Disease").</p> <p>Highly preferred indications include allergy, asthma, and rhinitis. Additional preferred indications include infection (e.g., an infectious disease as described below under "Infectious Disease"), and inflammation and inflammatory disorders.</p> <p>Preferred indications also include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders").</p> <p>Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, melanoma, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary tract cancers and/or as</p>
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				<p>the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Flavell et al., Cold Spring Harb Symp Quant Biol 64:563-571 (1999); Rodriguez-Palmero et al., Eur J Immunol 29(12):3914-3924 (1999); Zheng and Flavell, Cell 89(4):587-596 (1997); and Henderson et al., Mol Cell Biol 14(6):4286-4294 (1994), the contents of each of which are herein incorporated by reference in its entirety. Mast cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human mast cells that may be used according to these assays include the HMC-1 cell line, which is an immature human mast cell line established from the peripheral blood of a patient with mast cell leukemia, and exhibits many characteristics of</p>	<p>described below under "Hyperproliferative Disorders"). Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, leukemias, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, and Lyme Disease.</p>
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					immature mast cells.	
4	H6EDF66	952	Inhibition of squalene synthetase gene transcription.	Reporter Assay: construct contains regulatory and coding sequence of squalene synthetase, the first specific enzyme in the cholesterol biosynthetic pathway. See Jiang, et al., J. Biol. Chem. 268:12818-12824(1993), the contents of which are herein incorporated by reference in its entirety. Cells were treated with SID supernatants, and SEAP activity was measured after 72 hours. HepG2 is a human hepatocellular carcinoma cell line (ATCC HB-8065). See Knowles et al., Science. 209:497-9 (1980), the contents of which are herein incorporated by reference in its entirety.		
4	H6EDF66	952	Activation or inhibition of transcription through NFkB response element in immune cells (such as basophils).	This reporter assay measures activation or inhibition of the NFkB signaling pathway in Ku812 human basophil cell line. Assays for the activation or inhibition of transcription through the NFkB response element are well-known in the art and may be used or		

				<p>routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFkB transcription factors and modulate expression of immunomodulatory genes. NFkB is important in the pathogenesis of asthma. Exemplary assays for transcription through the NFkB response element that may be used or routinely modified to test NFkB-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Marone et al, Int Arch Allergy Immunol 114(3):207-17 (1997), the contents of each of which are herein incorporated</p>	
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				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
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				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
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				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>
				<p>Assays for activation of transcription are well-known in the art and may be used and routinely modified to assess</p>
				<p>by reference in its entirety.</p> <p>Cells were pretreated with SID supernatants or controls for 15-18 hours, and then 10 ng/mL of TNF was added to stimulate the NFkB reporter. SEAP activity was measured after 48 hours. Basophils that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human basophil cell lines that may be used according to these assays include Ku812, originally established from a patient with chronic myelogenous leukemia. It is an immature prebasophilic cell line that can be induced to differentiate into mature basophils. See, Kishi et al., Leuk Res. 9:381-390 (1985); Blom et al., Eur J Immunol. 22:2025-32 (1992), where the contents of each are herein incorporated by reference in its entirety.</p>

				<p>ability of polypeptides of the invention to inhibit or activate transcription. An example of such an assay follows: Cells were pretreated with SID supernatants or controls for 15-18 hours. SEAP activity was measured after 48 hours. LS174T is an epithelial colon adenocarcinoma cell line. Its tumorigenicity in nude mice make cell line LS174T a model for studies on the mechanism of synthesis and secretion of specific tumoral markers in colon cancer. See, Patan et al., Circ Res, 89(8):732-39 (2001), the contents of which are herein incorporated by reference in its entirety.</p>	
4	H6EDF66	952	<p>Activation of transcription through AP1 response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the AP1 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate growth and other cell functions.</p>	<p>Preferred indications include neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity", "Cardiovascular Disorders", and/or "Blood-Related Disorders"), and infection (e.g., an infectious disease as</p>

				<p>Exemplary assays for transcription through the API response element that may be used or routinely modified to test API-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1988); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Rellahan et al., J Biol Chem 272(49):30806-30811 (1997); Chang et al., Mol Cell Biol 18(9):4986-4993 (1998); and Fraser et al., Eur J Immunol 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety. Human T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell</p>	<p>described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional highly preferred indications include inflammatory and inflammatory disorders. Highly preferred indications also include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, leukemia, lymphoma, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia,</p>
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				line, which is an IL-2 and IL-4 responsive suspension-culture cell line.	metaplasia, and/or dysplasia. Preferred indications include arthritis, asthma, AIDS, allergy, anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, granulomatous disease, inflammatory bowel disease, sepsis, psoriasis, suppression of immune reactions to transplanted organs and tissues, endocarditis, meningitis, and Lyme Disease.
4	H6EDF66	952	Production of IL-10 and activation of T-cells.	Assays for production of IL-10 and activation of T-cells are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate or inhibit production of IL-10 and/or activation of T-cells. Exemplary assays that may be used or routinely modified to assess the ability of polypeptides and antibodies of	Highly preferred indications include allergy and asthma. Additional highly preferred indications include immune and hematopoietic disorders (e.g., as described below under "Immune Activity", and "Blood-Related Disorders"), autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T

			<p>the invention (including agonists or antagonists of the invention) to modulate IL-10 production and/or T-cell proliferation include, for example, assays such as disclosed and/or cited in: Robinson, DS, et al., "Th-2 cytokines in allergic disease" Br Med Bull; 56 (4): 956-968 (2000), and Cohn, et al., "T-helper type 2 cell-directed therapy for asthma" Pharmacology & Therapeutics; 88: 187-196 (2000); the contents of each of which are herein incorporated by reference in their entirety. Exemplary cells that may be used according to these assays include Th2 cells. IL10 secreted from Th2 cells may be measured as a marker of Th2 cell activation. Th2 cells are a class of T cells that secrete IL4, IL10, IL13, IL5 and IL6. Factors that induce differentiation and activation of Th2 cells play a major role in the initiation and pathogenesis of allergy and</p>	<p>cell-mediated immune response, and suppressing a T cell-mediated immune response.</p>
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				asthma. Primary T helper 2 cells are generated via in vitro culture under Th2 polarizing conditions using peripheral blood lymphocytes isolated from cord blood.	
5	HABAG37	953	Activation of transcription through GAS response element in immune cells (such as T-cells).	Assays for the activation of transcription through the Gamma Interferon Activation Site (GAS) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate STAT transcription factors and modulate gene expression involved in a wide variety of cell functions. Exemplary assays for transcription through the GAS response element that may be used or routinely modified to test GAS-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene	Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma (e.g., T cell lymphoma, Burkitt's lymphoma, non-Hodgkins lymphoma, Hodgkin's disease), melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include autoimmune diseases (e.g.,

				<p>66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Matikainen et al., Blood 93(6):1980-1991 (1999); and Hentinen et al., J Immunol 155(10):4582-4587 (1995), the contents of each of which are herein incorporated by reference in its entirety. Exemplary human T cells, such as the MOL T4 cell line, that may be used according to these assays are publicly available (e.g., through the ATCC).</p>	<p>rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional preferred indications include inflammation and inflammatory disorders. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), and infection (e.g., viral infections, tuberculosis, infections associated with chronic granulomatous disease and malignant osteoporosis, and/or an infectious disease as described below under "Infectious Disease"). An additional preferred indication is idiopathic pulmonary fibrosis. Preferred indications include anemia, pancytopenia,</p>
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5	HABAG37	953	Activation of transcription through NFKB response element in immune cells (such as T-cells).	Assays for the activation of transcription through the NFKB response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFKB transcription factors and modulate expression of immunomodulatory genes. Exemplary assays for transcription through the NFKB response element that	leukopenia, thrombocytopenia, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and asthma and allergy.
				Highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity," "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), and immunodeficiencies (e.g., as	

				<p>may be used or routinely modified to test NFKB-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Black et al., Virus Gnes 15(2):105-117 (1997); and Fraser et al., 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety. Exemplary human T cells, such as the MOLT4, that may be used according to these assays are publicly available (e.g., through the ATCC).</p>	<p>described below). An additional highly preferred indication is infection (e.g., AIDS, and/or an infectious disease as described below under "Infectious Disease"). Highly preferred indications include neoplastic diseases (e.g., melanoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, melanoma, renal cell carcinoma, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute</p>
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					lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, suppression of immune reactions to transplanted organs, asthma and allergy.
6	HACBD91	954	Activation of transcription through cAMP response element (CRE) in pre-adipocytes.	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP, regulate CREB transcription factors, and modulate expression of genes involved in a wide variety of cell functions. For example, a 3T3-L1/CRE reporter assay may be used to identify factors that activate the cAMP	<p>A highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. An additional highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below),</p>

				<p>signaling pathway. CREB plays a major role in adipogenesis, and is involved in differentiation into adipocytes. CRE contains the binding sequence for the transcription factor CREB (CRE binding protein). Exemplary assays for transcription through the cAMP response element that may be used or routinely modified to test cAMP-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Reusch et al., Mol Cell Biol 20(3):1008-1020 (2000); and Klemm et al., J Biol Chem 273:917-923 (1998), the contents of each of which are herein incorporated by reference in its entirety. Pre-</p>	<p>diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-hyposmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal</p>
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				adipocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary mouse adipocyte cells that may be used according to these assays include 3T3-L1 cells. 3T3-L1 is an adherent mouse preadipocyte cell line that is a continuous substrain of 3T3 fibroblast cells developed through clonal isolation and undergo a pre-adipocyte to adipose-like conversion under appropriate differentiation conditions known in the art.	tunnel syndrome and Dupuytren's contracture). Additional highly preferred indications are complications associated with insulin resistance.
6	HACBD91	954	Activation of transcription through cAMP response element in immune cells (such as T-cells).	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP and regulate CREB transcription factors, and modulate expression of genes	Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic

				involved in a wide variety of cell functions. Exemplary assays for transcription through the cAMP response element that may be used or routinely modified to test cAMP-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Black et al., Virus Genes 15(2):105-117 (1997); and Belkowski et al., J Immunol 161(2):659-665 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is a suspension	lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional preferred indications include inflammation and inflammatory disorders. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma (e.g., T cell lymphoma, Burkitt's lymphoma, non-Hodgkins lymphoma, Hodgkin's disease), melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic
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				<p>culture of IL-2 dependent cytotoxic T cells.</p>	<p>conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and asthma and allergy.</p>
6	HACBD91	954	Production of IL-6	<p>IL-6 FMAT. IL-6 is produced by T cells and has strong effects on B cells. IL-6 participates in IL-4 induced IgE production and increases IgA production (IgA plays a role in mucosal immunity). IL-6 induces cytotoxic T cells. Deregulated expression of IL-6 has been linked to autoimmune disease, plasmacytomas,</p>	<p>A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-6 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-6 production. A highly preferred indication is the stimulation or enhancement</p>

			<p>myelomas, and chronic hyperproliferative diseases. Assays for immunomodulatory and differentiation factor proteins produced by a large variety of cells where the expression level is strongly regulated by cytokines, growth factors, and hormones are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to mediate immunomodulation and differentiation and modulate T cell proliferation and function. Exemplary assays that test for immunomodulatory proteins evaluate the production of cytokines, such as IL-6, and the stimulation and upregulation of T cell proliferation and functional activities. Such assays that may be used or routinely modified to test immunomodulatory and differentiation activity of</p>	<p>of mucosal immunity. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), and infection (e.g., as described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Highly preferred indications also include boosting a B cell-mediated immune response and alternatively suppressing a B cell-mediated immune response. Highly preferred indications include inflammation and inflammatory disorders. Additional highly preferred indications include asthma and allergy. Highly preferred indications include</p>
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			<p>polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Miraglia et al., J Biomolecular Screening 4:193-204(1999); Rowland et al., "Lymphocytes: a practical approach" Chapter 6:138-160 (2000); and Verhasselt et al., J Immunol 158:2919-2925 (1997), the contents of each of which are herein incorporated by reference in its entirety. Human dendritic cells that may be used according to these assays may be isolated using techniques disclosed herein or otherwise known in the art. Human dendritic cells are antigen presenting cells in suspension culture, which, when activated by antigen and/or cytokines, initiate and upregulate T cell proliferation and functional activities.</p>	<p>neoplastic diseases (e.g., myeloma, plasmacytoma, leukemia, lymphoma, melanoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, myeloma, plasmacytoma, leukemia, lymphoma, melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis,</p>
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					suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, and Lyme Disease. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").
6	HACBD91	954	Regulation of transcription of Malic Enzyme in adipocytes	Assays for the regulation of transcription of Malic Enzyme are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate transcription of Malic Enzyme, a key enzyme in lipogenesis. Malic enzyme is involved in lipogenesis and its expression is stimulated by insulin. ME promoter contains two direct repeat (DR1)- like elements MEp and ME _d identified as putative PPAR response elements. ME promoter may also responds to AP1 and other	<p>A highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental</p>

			<p>transcription factors. Exemplary assays that may be used or routinely modified to test for regulation of transcription of Malic Enzyme (in adipocytes) by polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in: Streeper, R.S., et al., Mol Endocrinol, 12(11):1778-91 (1998); Garcia-Jimenez, C., et al., Mol Endocrinol, 8(10):1361-9 (1994); Barroso, I., et al., J Biol Chem, 274(25):17997-8004 (1999); Ijpenberg, A., et al., J Biol Chem, 272(32):20108-20117 (1997); Berger, et al., Gene 66:1-10 (1988); and, Cullen, B., et al., Methods in Enzymol. 216:362-368 (1992), the contents of each of which is herein incorporated by reference in its entirety. Hepatocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or</p>	<p>confusion, drowsiness, nonketotic hyperglycemic-hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively,</p>
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				may be routinely generated. Exemplary hepatocytes that may be used according to these assays includes the H4IIE rat liver hepatoma cell line.	weight gain. Additional highly preferred indications are complications associated with insulin resistance.
6	HACBD91	954	Activation of Endothelial Cell p38 or JNK Signaling Pathway.	<p>Kinase assay. JNK and p38 kinase assays for signal transduction that regulate cell proliferation, activation, or apoptosis are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to promote or inhibit cell proliferation, activation, and apoptosis. Exemplary assays for JNK and p38 kinase activity that may be used or routinely modified to test JNK and p38 kinase-induced activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include the assays disclosed in Forrer et al., Biol Chem 379(8-9):1101-1110 (1998); Gupta et al., Exp Cell Res 247(2): 495-504</p>	<p>A highly preferred embodiment of the invention includes a method for stimulating endothelial cell growth. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell growth. A highly preferred embodiment of the invention includes a method for stimulating endothelial cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell proliferation. A highly preferred embodiment of the invention includes a method for stimulating apoptosis of endothelial cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., decreasing)</p>

				<p>(1999); Kyriakis JM, Biochem Soc Symp 64:29-48 (1999); Chang and Karin, Nature 410(6824):37-40 (2001); and Cobb MH, Prog Biophys Mol Biol 71(3-4):479-500 (1999); the contents of each of which are herein incorporated by reference in its entirety. Endothelial cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary endothelial cells that may be used according to these assays include human umbilical vein endothelial cells (HUVEC), which are endothelial cells which line venous blood vessels, and are involved in functions that include, but are not limited to, angiogenesis, vascular permeability, vascular tone, and immune cell extravasation.</p>	<p>apoptosis of endothelial cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) endothelial cell activation. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., decreasing) the activation of and/or inactivating endothelial cells. A highly preferred embodiment of the invention includes a method for stimulating angiogenesis. An alternative highly preferred embodiment of the invention includes a method for inhibiting angiogenesis. A highly preferred embodiment of the invention includes a method for reducing cardiac hypertrophy. An alternative highly preferred embodiment of the invention includes a method for inducing cardiac hypertrophy. Highly preferred indications include neoplastic diseases (e.g., as described below under</p>
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					<p>“Hyperproliferative Disorders”), and disorders of the cardiovascular system (e.g., heart disease, congestive heart failure, hypertension, aortic stenosis, cardiomyopathy, valvular regurgitation, left ventricular dysfunction, atherosclerosis and atherosclerotic vascular disease, diabetic nephropathy, intracardiac shunt, cardiac hypertrophy, myocardial infarction, chronic hemodynamic overload, and/or as described below under “Cardiovascular Disorders”).</p> <p>Highly preferred indications include cardiovascular, endothelial and/or angiogenic disorders (e.g., systemic disorders that affect vessels such as diabetes mellitus, as well as diseases of the vessels themselves, such as of the arteries, capillaries, veins and/or lymphatics). Highly preferred are indications that stimulate angiogenesis and/or cardiovascularization. Highly preferred are indications that</p>
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					<p>inhibit angiogenesis and/or cardiovascularization.</p> <p>Highly preferred indications include antiangiogenic activity to treat solid tumors, leukemias, and Kaposi's sarcoma, and retinal disorders.</p> <p>Highly preferred indications include neoplasms and cancer, such as, Kaposi's sarcoma, hemangioma (capillary and cavernous), glomus tumors, telangiectasia, bacillary angiomatosis, hemangioendothelioma, angiosarcoma, haemangiopericytoma, lymphangioma, lymphangiosarcoma. Highly preferred indications also include cancers such as, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia.</p> <p>Highly preferred indications</p>
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					also include arterial disease, such as, atherosclerosis, hypertension, coronary artery disease, inflammatory vasculitides, Reynaud"s disease and Reynaud"s phenomenon, aneurysms, restenosis; venous and lymphatic disorders such as thrombophlebitis, lymphangitis, and lymphedema; and other vascular disorders such as peripheral vascular disease, and cancer. Highly preferred indications also include trauma such as wounds, burns, and injured tissue (e.g., vascular injury such as, injury resulting from balloon angioplasty, and atherosclerotic lesions), implant fixation, scarring, ischemia reperfusion injury, rheumatoid arthritis, cerebrovascular disease, renal diseases such as acute renal failure, and osteoporosis. Additional highly preferred indications include stroke, graft rejection, diabetic or
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				<p>other retinopathies, thrombotic and coagulative disorders, vasculitis, lymph angiogenesis, sexual disorders, age-related macular degeneration, and treatment /prevention of endometriosis and related conditions.</p> <p>Additional highly preferred indications include fibromas, heart disease, cardiac arrest, heart valve disease, and vascular disease.</p> <p>Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders").</p> <p>Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional preferred indications include inflammation and inflammatory disorders (such as acute and chronic</p>
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6	HACBD91	954	Activation of transcription through CD28 response element in immune cells (such as T-cells).	Assays for the activation of transcription through the CD28 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate IL-2 expression in T cells. Exemplary assays for transcription through the CD28 response element that may be used or routinely modified to test CD28-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); McGuire and Iacobelli, J	inflammatory diseases, e.g., inflammatory bowel disease and Crohn's disease), and pain management. A highly preferred embodiment of the invention includes a method for stimulating T cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting T cell proliferation. A highly preferred embodiment of the invention includes a method for activating T cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting the activation of and/or inactivating T cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-2 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-2 production. Additional highly preferred
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				<p>Immunol 159(3):1319-1327 (1997); Parra et al., J Immunol 166(4):2437-2443 (2001); and Butscher et al., J Biol Chem 3(1):552-560 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human T cells that may be used according to these assays include the JURKAT cell line, which is a suspension culture of leukemia cells that produce IL-2 when stimulated.</p>	<p>indications include inflammation and inflammatory disorders. Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. An additional highly preferred indication includes infection (e.g., AIDS, and/or as described below under "Infectious Disease").</p> <p>Highly preferred indications include neoplastic diseases (e.g., melanoma, renal cell carcinoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, melanoma (e.g., metastatic melanoma), renal</p>
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				<p>cell carcinoma (e.g., metastatic renal cell carcinoma), leukemia, lymphoma (e.g., T cell lymphoma), and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. A highly preferred indication is infection (e.g., tuberculosis, infections associated with granulomatous disease, and osteoporosis, and/or an infectious disease as described below under "Infectious Disease"). A highly preferred indication is AIDS. Additional highly preferred indications include suppression of immune reactions to transplanted organs and/or tissues, uveitis, psoriasis, and tropical spastic paraparesis. Preferred indications include blood disorders (e.g., as described below under</p>
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				involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Aramburu et al., J Exp Med 182(3):801-810 (1995); De Boer et al., Int J Biochem Cell Biol 31(10):1221-1236 (1999); Fraser et al., Eur J Immunol 29(3):838-844 (1999); and Yeseen et al., J Biol Chem 268(19):14285-14293 (1993), the contents of each of which are herein incorporated by reference in its entirety. NK cells that may be used according to these assays are	described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders. An additional highly preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia.
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				publicly available (e.g., through the ATCC). Exemplary human NK cells that may be used according to these assays include the NK-YT cell line, which is a human natural killer cell line with cytolytic and cytotoxic activity.	Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.
6	HACBD91	954	Activation of transcription through serum response element in immune cells (such as natural killer cells).	Assays for the activation of transcription through the Serum Response Element (SRE) are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate serum response factors and modulate the expression of genes involved	A preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) TNF alpha production. An alternative highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Preferred indications include blood disorders (e.g., as described below under "Immune

			<p>in growth and upregulate the function of growth-related genes in many cell types. Exemplary assays for transcription through the SRE that may be used or routinely modified to test SRE activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Benson et al., J Immunol 153(9):3862-3873 (1994); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary T cells that may be used according to these assays include the NK-YT cell line, which is a human natural killer</p>	<p>Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, for example,</p>
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				<p>cell line with cytolytic and cytotoxic activity.</p>	<p>leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, cardiac reperfusion injury, and</p>
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					<p>asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").</p> <p>Preferred indications include neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity", "Cardiovascular Disorders", and/or "Blood-Related Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications also include neoplastic</p>
6	HACBD91	954	<p>Activation of transcription through AP1 response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the AP1 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate growth and other cell functions. Exemplary assays for transcription through the AP1 response element that may be used or routinely modified to test AP1-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1988); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988);</p>	

				<p>Rellahan et al., J Biol Chem 272(49):30806-30811 (1997); Chang et al., Mol Cell Biol 18(9):4986-4993 (1998); and Fraser et al., Eur J Immunol 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety.</p> <p>Human T cells that may be used according to these assays are publicly available (e.g., through the ATCC).</p> <p>Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is an IL-2 and IL-4 responsive suspension-culture cell line.</p>	<p>diseases (e.g., leukemia, lymphoma, and/or as described below under “Hyperproliferative Disorders”). Highly preferred indications include neoplasms and cancers, such as, leukemia, lymphoma, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include arthritis, asthma, AIDS, allergy, anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin’s disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt’s lymphoma, granulomatous disease, inflammatory bowel disease, sepsis, psoriasis, suppression of immune reactions to transplanted organs and tissues, endocarditis,</p>
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6	HACBD91	954	<p>Activation of transcription through CD28 response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the CD28 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate IL-2 expression in T cells. Exemplary assays for transcription through the CD28 response element that may be used or routinely modified to test CD28-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); McGuire and Iacobelli, J Immunol 159(3):1319-1327 (1997); Parra et al., J Immunol 166(4):2437-2443 (2001); and</p>	<p>meningitis, and Lyme Disease.</p> <p>A highly preferred embodiment of the invention includes a method for stimulating T cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting T cell proliferation. A highly preferred embodiment of the invention includes a method for activating T cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting the activation of and/or inactivating T cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-2 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-2 production. Additional highly preferred indications include inflammation and inflammatory disorders.</p>
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				<p>Butscher et al., J Biol Chem 3(1):552-560 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Highly preferred indications include neoplastic diseases (e.g., melanoma, renal cell carcinoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, melanoma (e.g., metastatic melanoma), renal cell carcinoma (e.g., metastatic renal cell carcinoma), leukemia, lymphoma (e.g., T cell lymphoma), and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include</p>
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					benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. A highly preferred indication includes infection (e.g., AIDS, tuberculosis, infections associated with granulomatous disease, and osteoporosis, and/or as described below under "Infectious Disease"). A highly preferred indication is AIDS. Additional highly preferred indications include suppression of immune reactions to transplanted organs and/or tissues, uveitis, psoriasis, and tropical spastic paraparesis. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL),
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6	HACBD91	954	<p>Activation of transcription through NFAT response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of</p>	<p>plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.</p> <p>Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders. An</p>
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				<p>polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Serfling et al., Biochim Biophys Acta 1498(1):1-18 (2000); De Boer et al., Int J Biochem Cell Biol 31(10):1221-1236 (1999); Fraser et al., Eur J Immunol 29(3):838-844 (1999); and Yeseen et al., J Biol Chem 268(19):14285-14293 (1993), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>additional highly preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous</p>
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6	HACBD91	954	<p>Activation of transcription through NFKB response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the NFKB response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFKB transcription factors and modulate expression of immunomodulatory genes. Exemplary assays for transcription through the NFKB response element that may be used or routinely modified to test NFKB-response element activity of polypeptides of the invention (including antibodies and</p>	<p>disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.</p> <p>Highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), and immunodeficiencies (e.g., as described below). An additional highly preferred indication is infection (e.g., AIDS, and/or an infectious disease as described below</p>
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				<p>agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Black et al., Virus Gnes 15(2):105-117 (1997); and Fraser et al., 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>under "Infectious Disease"). Highly preferred indications include neoplastic diseases (e.g., melanoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, melanoma, renal cell carcinoma, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease,</p>
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